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20 Feb. 1958

Corral Hollow, Castle Rock, ft., San Joaquin Co., Calif.

276. ♂ Sayornis saya ad. tes. 7 mm. no fat 22.6 gm.

Corral Hollow, ft., Alameda Co., Calif.

277. ♂ Junco oreganus ad tes 1 mm. fat 18.9 gm.

8 Feb. 1958

2214 Haste St., Berkeley, Alameda Co., Calif.

278. ♂? Junco oreganus ad pick-up 18.3 gm. slight fat.

[illegible]aks
1958

Catalog

29 March.

25 road miles W Needles, on Rt. US 66, San Bernardino Co. Calif.

279 lizard
280 tortoise shell

Colorado River, opp. Ft. Mohave, 500 ft. Clark Co. Nevada
29 March

281 ♀ Myiarchus cinerascens ad. ova 1mm. 27.5 gm.

30 March

282 ♀ Peromyscus boylei 197-99-21-20 30.6 gm. (3 emb., 5mm.)
283. ♀ " maniculatus 158-68-20-18 - 26.4 gm. (no embryos)
284 ♂ " " 163-71-20-18 26.6 gm. (Tes 9×6mm)
285 ♀ " boylei 199-100-20-19- 27.7 gm. (no embryos)
286 ♂ Verm. fly. ad. 12.1 gm. Tes. 7×4mm.
287. ♀ " " 16.3 gm. Ova to 2mm.
288 Centurus uropygialis 70.0 gm. See species acct.

25 road miles W Needles, on US 66, San Bernardino Co, Calif.

29 March
289. ♂ Amphispiza bilineata 12.1 gm. Tes. 4mm. shot 29 Mar. put up 30 Mar.

Colorado River, opp. Ft. Mohave, 500 ft, Clark Co. Nevada

~~290 ♀ Per~~ 30 March

290. ♀ Perognathus 188-100-23-9 18.9 gm. (no emb.)
291. ♂ " 199-116-25-10 27.4 gm. (Tes 8×5mm.)

31 March

292 ♀ Peromyscus maniculatus 176-78-20-19 25.5 gm. (no embryos.)
293. ♀ " boylei 158-77-19-19 14.0 gm. (no emb.)
294. ♂ Perognathus 186-99-22-9 21.6 gm. (Tes. 8×4mm.)
295. ♂ Auriparus flaviceps 6.1 gm. Tes. 4mm.
296. ♂ Dendrocopos scalaris 33.4 gm. Tes. 6mm.
297. ♂ Dendroica auduboni 12.1 gm. Tes. 2mm. very fat.
298. ♂ Thryomanes bewickii 9.9 gm. Tes. 5×3mm.

[illegible] 1958

Catalog

Colorado River, opp. Ft. Mohave, 500 ft; Clark Co., Nevada

March 31

299. ♀ Myiarchus cinerascens 24.8 gm. ovary large ova to 1 mm.
300. ♂ " " 29.7 gm. Tes. 10x5 mm. Tes. 10x7 mm.
301 ♂ Peromyscus boylei 208-110-20-20 28.2 gm.

April 1

302. ♀ Peromyscus boylei 189-94-20-21 25.0 gm. Scrot. 8 mm., [illegible] 5 mm + bloody.
303 ♂ " " 186-94-20-20 24.8 gm. Tes. 8 mm.
304 ♂ Dendroica auduboni 11.3 gm. Tes, 2x1 mm, no fat - heavy molt.
305. ♂ Tachycineta thalassina 18.3 gm. Tes. 2 mm. very fat.

Snyder Ranch, ½ mi. W Colorado River, 500 ft, Clark Co, Nevada

April 1

306. ♂ Passerculus sandwichensis 19.5 gm. Tes. 2 mm. slight fat.
307. ♀ Aphelocoma coerulescens 66.5 gm, ovary inactive.
308. ♂ Vermivora luciae 7.3 gm. Tes. 5 mm.
309. ♂ Toxostoma dorsale 62.9 gm. Tes. 8 mm.
310. ♂ rabbit ~~Fe~~ Ear 80 Hind foot 88 Tes. ~~[illegible]~~ 1½ x ¾ in.

April 2

311. ♂ Pyrocephalus rubinus 13.4 gm. Tes. 7x4 mm.

1 mi. W Snyder Ranch, 600 ft, Clark Co., Nevada

312 ♂ Salpinctes obsoletus in desert 18.5 gm. Tes. 6x4 mm.

½ mi. W Snyder Ranch, 500 ft, Clark Co., Nevada

April 3

313 ♂ Perognathus 191-102-25-10 30.8 gm Tes. 7x4
314 ♂ Auriparus flaviceps 6.6 gm. Tes 4 mm.
315 ♀ Regulus calendula 6.1 gm ov. inactive.
316 ♂ Centurus uropygialis 75.5 gm Tes. 6x5 mm.
317 ♀ Dendrocopos scalaris 35.1 gm. ova to 5 mm.

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Calif-Nev. Line, 5000 ft., ½ mi W, 1 mi S Snyder Ranch, Clark Co. Nevada

~~310~~ April 4

318 ♀ Neotoma 5 Embryos, 40-45 mm. long. 304-139-30-29 173.3 gm.

319 ♀ Peromyscus no Emb. 199-103-20-20 26.0 gm.

320 ♀ " no Emb. 198-99-21-19 32.8 gm.

321 ♂ Vireo belli 8.8 gm Tes. 4x3 mm.

322 ♂ " " 9.3 gm. Tes. 4x4 mm.

323 ♂ Myiarchus cinerascens 28.8 gm. Tes. 5x4 mm.

324 ♀ Geococcyx californianus 248 gm. Stomach - grasshoppers. largest ovum 13 mm.

325 ♂ Centurus uropygialis 73.7 gm. Tes. 5x3 mm.

April 5

326 ♀ Dipodomys 4 placental scars - lactating. 241-136-36-14 46.1 gm.

327 ♂ Peromyscus Coll. N.K. Johnson. 167-72-20-19 23.6 gm. Tes. 9x5

328 ♀ Lophortyx gambelli 209 gm. shelled egg in oviduct.

329. ~~[illegible]~~

San Pablo Dam Road, Contra Costa Co., Calif.

April 19, 1958 coll. Herbert Winters (Paleo)

330. ♂ Petrochelidon pyrrhonota wings only enlarged testes mud on bill - found dead on road - another normal bird found at same time; right primaries extremely short.

Bodega Bay, ~~[illegible]~~ elev. sea level, Sonoma Co., Calif.

May 3, 1958

331 ♀ Zonotrichia leucophrys 26.2 gm. Brood Patch ova to 2 mm. a little fat on back.

332 ♂ " " 31.2 gm. test. 10 mm.

Bolinas, sea level, Marin Co., Calif.

June 15, 1958

333 ♂ Zonotrichia leucophrys 32.2 gm. Tes. 10 mm.

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1 mi. N Bolinas, sea level, Marin Co., Calif.

June 17, 1958

334. ♂ Melospiza melodia 19.5 gm. Tes. 10mm.

June 20, 1958

½ mi. NW Bolinas, 160± ft, Marin Co., Calif.

335 ♂ Zonotrichia leucophrys 28.8 gm. Tes. 9mm. slight fat.

1½ mi. WNW Bolinas, 200± , Marin Co., Calif.

336 ♂ Zonotrichia leucophrys 30.1 gm. Tes. 7×6mm. slight fat

June 21, 1958

2 mi. WNW Bolinas, 200± Marin Co., Calif.

337 ♂ Zonotrichia leucophrys 29.2 gm. Tes. 11×6mm. 1st yr.

June 22, 1958

1½ mi. WNW Bolinas, 200± ft. Marin Co., Calif.

338. ♂ Zonotrichia leucophrys 28.9 gm. Tes. 12mm.

339. ♂ " " 28.9 gm. Tes. 11mm.

June 24, 1958

1½ mi. W Bolinas, 160± ft., Marin Co., Calif.

340. ♂ Melospiza melodia, 18.4 gm. Testes small skull unossified.

June 29, 1958

2 mi. NW Bolinas, 250± ft., Marin Co., Calif.

341. ♂ Zonotrichia leucophrys. 29.0 gm. Tes. 9×6mm.

342. ♀ " " 29.0 gm. Broodpatch oviduct enlarged. Eggs in ovary 8×4mm

343. ♀ " " 23.1 gm. ovary + oviduct small Broodpatch - carrying food.

344. ♂ " " 30.7 gm. Tes. 10×6mm.

July 9, 1958

2 mi. W Bolinas, 120± ft., Marin Co., Calif.

345 ♀ Zonotrichia leucophrys 27.7 gm. ovary small.

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1958

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2 mi. W Bolinas, sea level, Marin Co., Calif.

July 12, 1958

346 ♂ Zonotrichia leucophrys 29.3 gm. tes. 3 mm.

½ mi. NW Bolinas, 160± ft., Marin Co., Calif.

July 19, 1958

347. ♂ Zonotrichia leucophrys, 28.3 gm. tes. large.

2 mi. W Bolinas, 100± ft., Marin Co., Calif.

July 22, 1958

348 ♀ Zonotrichia leucophrys. 27.2 gm. good. brood patch. ovary small

August 6, 1958

Mosquito Lakes, 8000 ft., 2 mi. W Lookout Peak, Alpine Co., Calif.

349. Rana muscosa

350. ♂ ~~Citellus~~ Eutamias ♂ 228 - 91 - 39 - 21 68.4 gm.

351. ♂ Sitta carolinensis 17.5 gm. Testes minute skull unossified.

352. ♂ Sphyrapicus thyroideus 50.8 gm. Tes. 1½ mm. skull unossified.

353 ♀ " " 48.1 gm.

354 Dendroica auduboni 11.5 gm. very fat - wing in molt.

355 ♂ Loxia curvirostra 30.4 gm. Tes. 5 mm. x 3 mm.

356 ♂ " " 34.0 gm. Tes. 4 mm round. very fat.

357 ♀ Junco oreganus 15.3 gm. ad skull.

358. ♂ Myadestes townsendi 32.5 gm. double skull tes. not fat 4x2 mm.

359. ♂ Hylocichla guttata 26.7 gm. ad skull slight fat. tes 3 mm. molt.

360. ♂ Parus gambeli 11.0 gm. Tes. small skull unossified.

Big Meadows, 6500 ft., Calaveras Co., Calif.

361. o? Dendroica occidentalis 9.0 gm. ad.

362. ♂ Oporornis 9.7 gm. unossified skull heavy molt.

9.2 mi. W Altaville on Rt. 4, Calaveras Co., Calif.

363. ♀ Tadarida 98-34-11-19 16.6 Gm. no Emb.

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San Diego Zoological Gardens
Found dead May 13, 1958

364. ♂ Icterus bullockii – 21.9 gm. – starved.

Died May 10, 1958

365. ♂? Platycercus elegans, very fat.

Died May 21, 1958

366 ♂? Fringilla montifringilla emaciated ad. sk. sexed ♂ by 300 scub. by plum.

Berkeley, Alameda Co., Calif.
May 19, 1958

367. ♂ Hylocichla ustulata Tes. 3 mm. found dying Ad. sk. No fat.

1 mi. N, 2 mi E Martinez, salt Marsh, Contra Costa Co., Calif.
Sept. 18, 1958

368 ♀ Sorex 92-35-11-5 3.7 gm. no embryos
369 ♂ Reithrodontomys raviventris 178-99-18-14 12.0 gm. tes. 5 mm.
370 ♂ " " 164-94-17-14 10.7 gm. tes. 5 mm.
371 ♂ Telmatodytes palustris 10.3 gm. tes. 1 mm. imm. skull
372 ♂ Geothlypis trichas 8.6 gm. imm. skull
373 ♂ Zonotrichia leucophrys 22.8 gm. tes. 1 mm imm sk.
374 ♀? Melospiza melodia 21.1 gm. ad sk.
375 ♂ " " ~~[illegible]~~ 19.7 gm. imm sk.

Oct. 26, 1958
17 mi W Junction, Kimble Co., Texas

376 ♂ Muscivora forficata Tes. 2 mm. Fat skull unossified.

Nov. 22, 1958

♂ U.C. Campus, Berkeley, Alameda Co., Calif.

377. ♂ Dendroica townsendi Found dead by Frances Carter 10.1 Gm. Tes. 1 mm. slight fat; skull inc. oss.

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Madera Camp Ground, Madera Cañon, Santa Rita Mts., Ariz.

Feb. 3, 1958

SFEL.
378 ♂ Aphelocoma ultramarina captive; Tes. 15 mm. 87.2 gm. coll. J.L. Brown. - prep. Nov. 29.

Banks. R. C.
1958
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a.

5 Feb. 1958

Red Rock Island, San Francisco Bay, Calif.
Visited here with Paul Anderson, who is studying the salamanders of this + other bay islands. Today is cloudy and slightly windy. This island is small, but very steep + rather high. The only birds seen on the island were Zonotrichia leucophrys and Melospiza melodia. On the way to the island saw ~~Herring~~ Western, Calif. + Bonaparte Gulls, and a flight of 10 cormorants. At the dock just while waiting for the boat saw American and Surf Scoters, Ruddy Duck, American Merganser, Am. Goldeneye, and also enroute to dock saw Scaup + Canvasback. Arrived at island about 0930, stayed till 1100. Found cormorant skull on shore. Island is completely covered with vegetation except steepest slopes. Achillea, lilies, Baccharis, cucumber vine, lots of grass, and "pea vine". While combing the beach saw an Actitis macularia. Found a dead gull, ad. plumage, good shape. See sp. acct. Also found a synsacrum of something. Found a badly decomposed bird, looks like a grebe. Saved what was left of skull (back), humerus, coracoid and a primary. With this bird was part of a cormorant (?) skull. See later notes for identification of these things.

5 Feb. 195~~7~~8

Brooks Island, San Francisco Bay, Calif.

After leaving Red Rock came here. Arrived about 1200, stayed until 1430. Here I spent all my time working in the Indian shell mound deposits. Dug out many fragments of bird bones, also some fish vertebrae and part of a sea otter skull. Paul dug out some human remains and artifacts. Along the edge of the mound the tide is washing things away, and many bones are just lying among the shells that make up the beach line. Saw in the bay Horned grebes, Bufflehead.

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29 March

Trip to Colorado River, Clark Co., Nevada, with Ned K. Johnson. Ned and I left Berkeley at 9 PM Mar. 28, via Rts. 99, 466, + 66 to Needles. Drove all night, stopping for coffee + gas several places. At dawn on Mar. 29 we were in vicinity of Barstow, where we had breakfast a little after 6 A.M. Several times during the morning we stopped to see the wild flowers blooming in the desert. The blooms were beautiful, with shades of yellows + purples predominating. Many composites, many with tubular corollas.

25 road mi. W. Needles, on Rt. 66, San Bernardino Co., Calif.

This was one of our stops, and we took a walk for 45-60 min. in the desert. Ned + I each got a Desert Sparrow (Amphispiza bilineata) and I shot a lizard (#279) and found part of the shell of a tortoise (#280). Other birds in the area were: Roadrunner, Mockingbird, Turkey Vulture.

Colorado River, opp. Ft. Mohave, 500 ft., Clark Co., Nevada

Drove to the river along a road (?) barely the width of the car, lined on both sides with 6-ft. high Arrow-weed. The entire bottomland here is one big thicket of this brush, with Poplars spotted around and much Willow. At least 2 horses and some cattle are in the area and have made trails thru the brush. We camped in a clearing right at the river, where

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1958

Journal

29 March

Colorado River, opp. Ft. Mohave, 500 ft., Clark Co., Nevada

The bank is about 5 ft. high. The river is clear, fast, and apparently deep. After establishing camp we took a nap to recover from our all-night drive. Got up around 4 p.m.. I shot a Myiarchus cinerascens in camp. Ned + I each set 20 traps (10 mus. spec. + 10 rat traps) and had supper at 5. Tried to hunt bats, but no bats; heard some later. Also tried to run down a Bubo virginianus, without success. Then came and wrote notes. Very cold this evening.

Journal

Colorado River opp. Ft. Mohave, 500 ft., Clark Co., Nevada

Mar. 30 My traps this morning had 4 *Peromyscus*, 2 *boylei* and 2 apparent *maniculatus*. One of each species had a lot of hair gone on the rump and tail. Out to shoot birds by 7 AM. Things were slow. Finally got a ♂ *Pyrocephalus rubinus* and later a ♀, both out of cottonwood. Also got a *Centurus uropygialis* from a cottonwood snag. Put up birds shot yesterday and today. Other species seen today were: *Melospiza melodia*, *Thryomanes bewickii*, *Vermivora luciae*, *Myiarchus cinerascens*, *Auriparus flaviceps*, *Dendrocopos scalaris*, *Pipilo aberti*, *Ardea herodias*, and Cormorants, Gulls, and Am. egrets, the latter also seen yesterday. Also *Cathartes aura*. Just before dark set a few mouse traps around camp, and very shortly had a ♀ *Perognathus* near a hole in the sandy soil, near the river. Warmer tonight than last, and we saw a couple bats in camp. It's been a beautiful day, with just enough breeze to keep the mosquitoes away + keep it comfortably warm. By 8:45 caught the second *Perognathus*, a ♂, outside the same hole as the other.

Mar. 31 Had one *Perognathus*, 1 *Peromyscus maniculatus* and one *Peromyscus* ~~boyl~~ *boylei*. Out hunting by 7:30. First shot a *Myiarchus* out of a cottonwood, later a *Dendrocopos scalaris* and a *Dendroica auduboni* also out of cottonwoods. Got an *Auriparus* from a mesquite. Finally, after a long chase through the brush,

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1958

Journal

Colorado River, opp. Ft. Mohave, 500 ft, Clark Co., Nevada

Mar. 31 got a singing Thryomanes bewickii. These animals run 292-299. After skinning all day had some extra time - shot a Myiarchus in camp. Just after dark got a Peromyscus boylei in a trap in camp. 300, 301. During the day missed a long shot at a thrasher, probably Crissal; Ned got one. It got very cloudy late in the afternoon, and sprinkled rain just after dark. Bewick Wrens are fairly common, many singing in the area. Some of them sound remarkably like Song Sparrows, but the latter are heard only close to the river, the wrens farther back in drier brush. Gila Woodpeckers appear more common than the Ladder-back, but it may be because they are noisier. Verdins are very common, and there are many old nests around. The Myiarchus are around every cottonwood, and Vermillion flycatchers are common. The Audubon Warblers are going past in flocks up to 10, but the one I got was alone. A lot of Swallows were around all day, fewer in the p.m., looked like Cliff but I couldn't be sure. Saw a Black Phoebe, ~~the~~ Sayornis nigricans just after getting up, and followed him up river but couldn't get a shot. Saw some Abert Towhees early this morning but couldn't get a shot - very wary birds. Heard some Gambel Quail about the same time, and a little later heard what was probably a Roadrunner, judging from Ned's imitation. A Horned Owl was singing from about

Marks 1958

Journal

Colorado River, opp. Ft. Mohave, 500 ft., Clark Co., Nevada

Mar. 31 4 PM till well after dark. A few Mourning Doves have flown past about dusk every day here. No bats at dusk, but some heard late. Ned shot a Chordeiles acutipennis just at dusk, only one seen. Saw a Sparrow Hawk in the morning, and a Turkey Vulture, the usual Gulls and Cormorants along the river, and a Great Blue Heron again early this morning.

Apr. 1 Very cloudy and cold this morning. Saw 3 Coots and 2 Eared Grebes in the river, early. Right after breakfast we broke camp, afraid of what the rain might do to the road. Just before we left I shot a molting Audubon Warbler, and got a Violet-green Swallow out of the air with my pistol. Had 2 Peromyscus boylei in the traps around camp. Left this camp about 7:30 A.M., and moved inland to the edge of the desert. This new locality we called

Snyder Ranch, 500 ft., ½ mi. W Colorado River, Clark Co., Nev.

I hunted up in the desert a while, then swung back into the mesquite brush at the edge of the flood plain. Very little in the desert; saw a Myiarchus, and shot a Savannah Sparrow. In dense Arrow-weed just at the edge of the desert saw a pair of Crissal Thrashers and three Scrub Jays. Shot one of the Jays; these were all in mesquite sticking above the Arrow-weed. Saw several Gambel Quail in mesquite. Some Ruby-

Banks
1958

Journal

Snyder Ranch, 500 ft., ½ mi W. Colorado River, Clark Co., Nevada

Apr. 1 crowned Kinglets and Verdins also in a patch of mesquite at the desert edge. Down in the floodplain shot a rabbit, which was infested with blow-fly type cysts, and a large "maggot" which I preserved. Saw Vermillion Flycatchers doing their courtship "butterfly" flight, and Ash-throated Flycatchers. Shot a Lucy Warbler out of a large willow, and then a Crissal Thrasher from a small tree in arrow-weed. Phainopepla's were abundant, and some Cedar Waxwings around. There were a lot of Audubon Warblers going past. While waiting for Ned to get back from hunting I did the 2 mice. When he returned we moved camp back into the trees to get out of the wind — and it began to rain! All afternoon it sprinkled off and on, just enough to keep us from getting anything much done. I finished up the rabbit and Ned did his Nighthawk, and after supper we moved to the "Bat House," down the road a long ways. Here it was dry, at least, and we did some skins, working till about 9 PM. Just before dark in the tree camp at Snyders Ned set 20 rat traps along a ditch, and I set 20 mus. sp. through the mesquite. There are a lot of holes all through this area, incl. badger holes. Set 4 rat traps in the Bat House, where there are no bats but lots of rat sign. (Much bat droppings.)

Journal

Snyder Ranch, 500 ft., ½ mi. W Colorado River, Clark Co., Nevada

Apr. 2 Tried this morning to get back to our camp in the trees, but got stuck in the mud. Walked in and picked up our traps, all empty. Put up the birds we had left over from yesterday. Just before noon Mr. Snyder came by. In answer to several questions we found the following: No deer in area; there are White-winged Doves, but it is early for them; nothing that fits description of a cardinal; there is a bat cave nearby, and a lake (which we will try to get to); he has seen "white owls" occasionally, and there are big owls and screech owls; occasionally in the winter he has seen very small owls. In the afternoon walked for about an hour on the desert looking for herps - not a sign of a reptile. There were a zillion grasshoppers and lots of Painted Lady Butterflies, and many Audubon Warblers. Shot a Rock Wren at the top of a wide wash. While up in the desert I could hear amphibians calling in the willows. Finally found the place, on the map as intermittent water, a shallow slough with Tamarisk growing in it. Lots of frogs (Spadefoot, I guess) but I couldn't get any. Saw some doves, and several Snipe. Ned was downstream a little where the water forms a small pond and got 2 Hyla regilla. About 5 P.M. we unstuck the car and moved camp.

½ mi NW Snyder Ranch, 5000 ft, Clark Co., Nevada

Apr. 2 I think we are finally settled down for the rest of the week, barring more bad weather. Heard a Screech Owl after supper, but couldn't get to it. Went bat shooting, but again no bats, no poor-wills. I set about a dozen mouse traps in the area. We are not far from the desert, and not far from the pond. The immediate area is open ~~mesquite~~ willow with a lot of fallen timber. Nearly every down tree has a hole under it. A Barn Owl flew over about 8 P.M. I put up the warm tonight.

Apr. 3 What a lousy day today, in all respects. Had 1 Peromyscus with a smashed skull and 1 Perognathus. We were out hunting by 6 A.M., but until 8 I had no birds. Couldn't get close to anything but Gambel Quail and Audubon Warblers. I hunted along the edge of the floodplain and desert, occasionally into a wash. A number of flocks of Violet-Green Swallows flew ~~at~~ over and White-crowned Sparrows were common. The usual Ash-throated and Vermilion Flycatchers were present, and Lucy and many Audubon Warblers. Crissal thrasher and Scrub Jay were in the Arrow-weed-Mesquite at the edge of the desert bluff. Heard a Roadrunner and saw a few Phainopeplas. In one wash saw a pair of Rock Wrens and several Turkey Vultures. In a mesquite thicket found an Abert Towhee. It got

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½ mi NW Snyder Ranch, 500 ft, Clark Co., Nevada

Apr.-3 extremely cold and windy and cloudy about 8 a.m. and the birds were hugging the brush thickets. I went into the woods toward camp, shot a Verdin. Heard a drumming in a dead snag, squeaked and a Gila Woodpecker came out. I shot him, later got a Ladder-backed Woodpecker. Saw Black-tailed Gnatcatcher and shot a Ruby Crowned Kinglet. In the willows where it was green with Tamarisk I twice flushed what was probably a Long-Eared Owl, but couldn't get a good look. About 10 AM we decided on one last move, to avoid the wind and rain that was threatening. Back to the "Bat House" by 11 AM.

Calif-Nev. line, ½ mi. W, 1 mi. S Snyder Ranch, 500 ft, Clark Co., Nevada. This is our new locality. Put up skins in the afternoon, Very windy and some rain. At 5 P.M. we set traps, I put about 20 mouse and 5 rat traps in the desert, ~~some~~ (2 rat) at a pile of rocks with a bench mark (BP421) which looked like a wood-rat nest. Set 1 rat and 1 mouse trap in the cabin. After dark we checked Ned's traps and some of mine - all empty. No animals, nothing to do tonight. The night is windy and cold, the moon is full or nearly so, but there are a lot of clouds. Hope for a better day tomorrow.

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1958

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Calif.-Nev. line, ½ mi W 1 mi S Snyder Ranch, 500 ft, Clark Co., Nev.

Apr. 4. The weather is not very good again, still cool and very windy. Had a *Neotoma* in my trap line, caught at the mouth of a large hole at the top of the wall of the wash. In the cabin had 2 *Peromyscus*. Shot a roadrunner right away in my hunt, and later two *Vireo bellii*. In the afternoon, to fill up the time got a *Myiarchus* and a Gila Woodpecker. The roadrunner had been seen across the road from camp earlier, and when I shot it, it had 2 grasshoppers in its bill. Later saw another, probably its mate, right near the cabin. The Vireos were both singing low in willows. I walked down this road toward the river, saw Bewick Wren and Abert Towhees in the brush along the road. The road has just been scraped through the arrow-weed, and the growth on either side is dense. Heard a Yellowthroat and a Song Sparrow in one place, and went into the brush but though I saw them both, I couldn't get either. The night is extremely cold, but bright.

Apr. 5. A beautiful day at last - the day we have to leave. Very bright and hot, just a few wisps of clouds. Had a *Dipodomys* in my trapline. All birds are active, and leps are out for the first time. Saw *Amphispiza bilineata* for the

Banks
1958

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Calif-Nev. line, 500 ft. ½ mi W 1 mi S Searchlight Road, Clark Co., Nev.

Apr. 5 first time since enroute. Yesterday saw 5 White Pelicans flying up the river. After a couple hours of walking and looking, shot a Gambel Quail from a flock in the wash by the cabin. It's now about 2 P.M. - our plans are to hunt herps for a while, then clean up and go home.

Later: Spent a little over an hour looking for lizards - they had disappeared since this morning. Saw only 2, one of which I captured. Found a Desert Tortoise in a draw leading into the wash which is in front of the cabin. This was about 2:30 P.M. Took a number of color pictures of flowers.

The map used in all these locality designations is the "Davis Dam, Nev.-Ariz.-Calif." quadrangle, USGS, 1952 Ed., N 3500 - W 11430/15 (15' series).

Following is a list of birds seen on the trip. March 29 - April 5

Colymbus caspicus
Pelecanus erythrorhynchos
Phalacrocorax auritus
Ardea herodias
Casmerodius albus

Banks 1958

Journal

Colorado River Valley, So. Clark Co., Nevada
March 29 - April 5, 1958

Cathartes aura
Buteo jamaicensis
Falco sparverius
Lophortyx gambelli
Fulica americana
Charadrius vociferus
Capella gallinago
Larus sp.
Zenaidura macroura
Geococcyx californianus
Tyto alba
Otus asio
Bubo virginianus
Asio otus ?
Chordeiles acutipennis
Archilochus alexandri
Calypte costae
Centurus uropygialis
Dendrocopos scalaris
Myiarchus cinerascens
Sayornis nigricans
Pyrocephalus rubinus
Tachycineta thalassina
Aphelocoma coerulescens
Auriparus flaviceps
Thryomanes bewickii

Banks
1958

Journal

Colorado River Valley, so. Clark Co., Nevada
March 29 – April 5, 1958

Salpinctes obsoletus
Mimus polyglottos
Toxostoma dorsale
Myadestes townsendi
Polioptila melanura
Regulus calendula
Bombycilla cedrorum
Phainopepla nitens
Vireo bellii
Vermivora luciae
Dendroica auduboni
Geothlypis trichas
Icterus bullockii
Spinus lawrencei
Pipilo aberti
Passerculus sandwichensis
Amphispiza bilineata
Junco oreganus
Spizella passerina
Zonotrichia leucophrys
Melospiza melodia

Turdus migratorius
Carpodacus mexicanus

Banks
1958

Journal

Vicinity of Bolinas, sea level - , Marin Co, Calif.
June 15 - 22, 1958

Arrived here for Zoo 212, marine invertebrate zoology. We are housed in the old Coast Guard Station. This is a 6-week session w/ Dr. R.I. Smith + Dr. Cadet Hand. George Fisler, Pete Schramm, Don Roberts, Bill Hamilton, + Al Zeigler are here also. Also Cope MacClintock, Invert. Paleo. Sun. PM had supper on the beach - shot a Zonotrichia. Tues., Geo. + I drove around a bit + I got a Song Sparrow. Fri., found an area of brushy pasture loaded with White-crowned Sparrows. Worked this area Fri. PM., Sat afternoon, and Sunday A.M. Saw: Zonotrichia leucophrys, Melospiza melodia, Chamaea fasciata, Thryomanes bewickii, Aphelocoma coerulescens and Spinus tristis. In the fields also were Sturnella neglecta, Agelaius ~~phoeniceus~~ phoeniceus, and Falco sparverius. On Sun. (22d) saw a Sayornis nigricans in Baccharis in this brushy field! This area is on the road to Golden Rule village, or Palomarin Reef + nursery. Sunday about 9 went with Dr. Smith to Duxbury Reef. Here there was a flock of 60±2 Branta nigricans feeding on Ulva lactuca. Also many gulls, incl. Larus heermanni and L. argentatus, and 2 Ardea herodias. Seen feeding on the ~~bea~~ beach were Melospiza, Zonotrichia, ~~and~~ and Spinus. A herd of

Banks
1958

Journal

Vicinity of Bolinas, sea level - , Marin Co., Calif.
June 15-22 cont'd.

Northern Sea Lions (?) was here. On the beach saw what appeared to be mole runs.
In and around the area there are a lot of birds. Corvus corax, C. brachyrhynchus, Casmerodius albus, Nycticorax nycticorax, Hylocichla ustulata, Euphagus cyanocephalus, Carpodacus mexicanus, Passer domesticus, Petrochelidon pyrrhonota, Hirundo Rustica. Warblers, too, are here, but I haven't identified any but Dendroica aestiva and possibly Wilsonia pusilla. also have seen Nuttallornis borealis, Buteo jamaicensis, and probably others I don't recall. Zenaidura macroura, Columba fasciata (3 of these), Lophortyx californica and ~~Gavia~~ stellata (1 on 15th) ~~are~~ are among these.

June 24. Geo. and I ~~June 24~~ drove around the Mesa (as this area is called) and missed 1 Zonotrichia. Many others heard. Al Zeigler gave me a Melospiza he trapped today - a first-year bird (mm ♂). A couple birds I forgot to put on last week's list are Aechmophorus occidentalis and Melanitta perspicillata and Cathartes aura. Bill Hamilton reported Bank and Rough-winged swallows. Also I saw a Cyanocitta stelleri.

Banks
1958

Journal

Vicinity of Bolinas, sea level - 300 ft., Marin Co., Calif.

June 29 During the past week I have seen Bombycilla cedrorum. Also remember to put Larus occidentalis on the list. Yesterday drove to Dillon Beach, didn't see anything unusual. Today from 8-30 to 9:30 AM collected 4 White-crowns. Saw three Band-tailed pigeons again. Redwings are in large flocks. Also during the week saw Fulica americana.

July 9 Added Caspian Tern to the list. Got another White-crown today. Have seen Pelecanus occidentalis off and on since I was here. Also have seen Phalacrocorax pelagica.

July 30 More birds that I have not added at the proper time: Phasianus colchicus, Pandion, Leucophoyx thula (seen July 26 on way home, 2), Haematopus bachmani (at Duxbury Reef, about June 30 or July 1), Geo. Fisler reported Curlews (Numenius) and "peeps" on the island in Bolinas Lagoon, and I have heard curlews several nights.

Aug 6. Big Meadows, 6500 ft., Calaveras Co., Calif. On a trip with Jim Anderson and Ned Johnson. Left Berkeley @ 3:15 AM. Stopped at 9.2 mi W Altaville just after dawn, + I shot a bat (Tadarida), one of a great many flying around. Reached Big Meadows about 0830. In an hour + here, I collected 1 Dendroica occidentalis and 1 Oporornis

Banks
1958.

Journal

Aug 6 Big Meadows, 6500 ft., Calaveras Co., Calif. — tolmei.
Among birds recorded were: Junco oreganus (feeding young), Empidonax sp., Passerella iliaca, quite common, Dendrocopos villosus, Parus gambeli, Sitta sp.. Moved on to

Aug 6 Mosquito Lakes, 8000 ft., Alpine Co., Calif.
Arrived here about 10 A.M. Went collecting till about 3 PM, rested ~~and dro~~ some then left about 6:30 or 7 p.m. Saw and collected a good number of birds, also got a Rana (#349) muscosa out of a pond and shot a (#350) Eutamias out of a tree. Saw: Piranga ludoviciana, many Turdus migratorius, incl. many young ones, Certhia familiaris, Sitta canadensis, Cyanocitta stelleri, Dendroica occidentalis, Euphagus cyanocephalus. Collected 2 Parus gambelli, 2 Sitta carolinensis (both 2's together), 2 Sphyrapicus thyroideus (not together), 1 Junco oreganus, 1 Dendroica auduboni, 1 Hylocichla guttata, 1 Myadestes townsendi, and just before we left, right at the first lake, got 2 of a group of 3 Loxia curvirostra. No Passerella here, common below. Also saw a Colaptes cafer.

Sept. 18 1 mi. N, 2 mi. E. Martinez, salt marsh, Contra Costa Co., Calif.
Visited this area with Charles Thaeler, who had traps set for Microtus. The marsh abounded with Telmatodytes palustris and Melospiza melodia.

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Journal

Sep. 18 1 mi N, 2 mi E Martinez, saltmarsh, Contra Costa Co, Calif - also saw a rail, probably Rallus limicola. The hills around the marsh had Baccharis in clumps + strips. Here was a flock of Zonotrichia leucophrys, a few Geothlypis trichas, some marsh wrens, and for a while a Lanius ludovicianus. I shot 3 Song Sparrows, 1 Yellowthroat, 1 White crown, and 1 Marsh wren - with 5 shots. One Song sparrow rotted. Charlie gave me a few mammals to put up. See catalog.

Oct. 1 U.C. Campus, Berkeley, Alameda Co., Calif. - Began baiting for trapping a few days ago. Further notes will be under species accts; mainly of Zonotrichia leucophrys.

Banks, R.C.
1958
Species Accounts
Birds

Banks
1958

Branta nigricans

June 22 Bolinas, Duxberry Reef, sea level, Marin Co. Calif. — A flock of 60 ± 2 were seen along the edge of this reef this morning. Smaller flocks had been seen during the past week. These birds today were very tame, some allowing me to walk to within 10 ft (or less) of them. They were feeding on Ulva lactuca, sea lettuce. All birds seemed to be in rather worn plumage. Grinnell + Miller report occasional birds in summer, in poor condition, and main food eel grass. (p. 69)

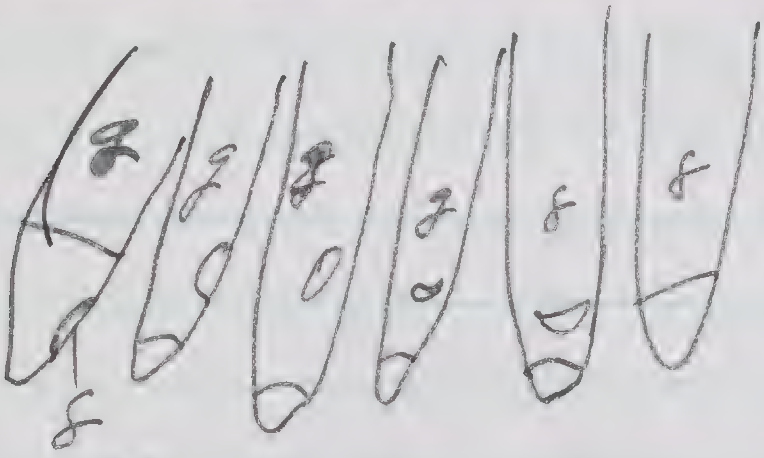
Banks
1958

Larus glaucescens. 1

5 Feb. 1958

Red Rock Island, San Francisco Bay, Calif.

Found adult bird dead on beach. It was pretty fresh, no smell or slipping. Feet are pink, bill pale yellow with orangish spot near end of lower mandible. Head, neck and entire underparts white, as is tail and all tail coverts. Mantle light gray. Leading edge of wing white. Flight feathers tipped with white.



outer.

Primaries g = gray, rest = white.

Saved skull and left foot. Bird was ♀, many ova about 1mm or less.

Banks
1958

Aeronautes saxatalis

15 Apr. Berkeley, Alameda Co., Calif. - 5 swifts flying around the building on the NW corner of Bancroft and . On the N side of the building there are 5 holes leading into the tile roof. Similar holes face all along the E and S edges of the roof. The swifts were flying around the N side, occasionally entering the holes on the N side. For a while there were only 3 birds in the air, and sounds indicated that 2 birds were in the holes. During this period one of the holes already occupied, and a bird would leave the hole almost at once. They seemed to use only 2 of the 5 holes.

16 Apr. This morning I saw only one swift flying in the area, and it did not go near the N side of the building. However, I heard swift-like sounds apparently coming from a hole or holes on the E side, near the S.E. corner.

Banks
1958

Centurus uropygialis

Mar. 30 Colorado River, opp. Ft. Mohave, 500 ft. Clark Co., Nevada

There are many pairs of Gila Woodpeckers in this area, and they are extremely obvious because they are so noisy. They all appear to be in pairs, and are strictly restricted to the cottonwoods. A bird shot today, in male plumage, was heavily parasitized with round worms; the entire body cavity is filled. The body of this specimen (RCB 288) was preserved in formalin. I could not immediately find the gonads, at least partly because of the worms.

Apr. 1 Snyder Ranch, 500 ft, ½ mi W Colorado River, Clark Co., Nev.

The situation here is the same as at the river, pairs of birds in the cottonwoods. Ned shot 2 ♂'s today, one of which was full of roundworms.

Apr. 3 ½ mi NW Snyder Ranch, 500 ft, Clark Co., Nevada

I heard a drumming on a dead cottonwood snag, couldn't see anything. When I squeaked, a Gila flew out of a hole 12-15 ft. high in the snag. I shot it and it was a ♂ (RCB 316) with enlarged testes. No parasites

Apr. 4 Calif.-Nev. Line, 500 ft, ½ mi W, 1 mi S Snyder Ranch, Clark Co., Nev.

Shot another ♂ here, not sticking to cottonwoods but moving a good deal, in willows, etc. This bird had just a few roundworms in his body cavity. Heard a pair here the next day.

Banks
R.C.
1958

Sphyrapicus thyroideus

Aug. 6 Mosquito Lakes, 8000 ft., 2 mi W Lookout Peak, Alpine Co., Calif.
Shot 2 birds, ♂ in morning, ♀ in mid afternoon. Both molting heavily. ♂, 352, had almost indiscernable testes (had been frozen), and the skull was completely single layer. The ♀, 353, was mushy inside, the skull was double layer on the rear ⅓ or so. The ♀ leaked thru the head, + lost many feathers when washed.

Banks
1958

Aphelocoma ultramarina

Feb. 3 - Madera Camp Ground, Madera Cañon, Santa Rita Mts., Santa Cruz Co., Ariz.

This bird collected by J.L. Brown on this date. Kept captive in Berkeley until it died during the summer. Frozen until Nov. 29, 1958, when it was prepared as a skeleton, RCB 378. At that time it had testes 15 mm., wt. 87.2 gm.

Another caught this date, died Dec. 4, 1959. It was adult when captured, acc. to ~~Brown~~ Brown, probably born in 1956 or earlier. It was a ♀, with inactive ovary. Molting. Frozen until Dec. 24, 1959, when it was skeletonized by RCB, #711.

A third bird held captive by Jerry Brown died Feb. 1, 1960. It had been captured about the same time and place as the previous two. It was a ♂, testes about 5 mm. RCB 715

Banks
1958

Loxia curvirostra

Aug 6 Mosquito Lakes, 8000ft., 2mi W. Lookout Peak, Alpine Co., Calif.

A group of at least 3 red crossbills came into the pines at the end of this lake, E side. Shot one from the top of a pine (good distance) and it drifted to a big pile of rocks. While retrieving it, saw 2 more, one on top of a small (10-15 ft.) pine, and one flying away. Shot the one in the tree. First one put up (Aug. 12) was a ♂, fat deposits heavy under all feather tracts. Left testis 5 mm. long, × 3 mm wide, skull completely double-layered. The wings are in molt, with the 1st or 2d primaries just coming in. (RCB 355). The second bird is also ♂, testes 4 mm diameter, yellow, round. Heavy fat deposits under skin. Skull completely double-layer. (#356).

Banks
1958

Zonotrichia leucophrys

May 3 Bodega Bay, sea level, Sonoma Co., Calif. - Along the beach here, along the land spit closing the south end of the harbor, many lupines and other waist-high shrubs growing in the sand. One bird sang from the top of a lupine, the second flew from one lupine to another, in a circle. The two were collected about 20 minutes apart, perhaps 30 yards apart. (these are #331, 332). Many Song Sparrows and a few Savannahs in the area, Amer. Goldfinches and a ♀ Cowbird. Missed one other White-crown chipping on top of a Lupine. Found no nests.

Jun 15 Bolinas, sea level, Marin Co., Calif. - along the coast, at the dead end after the road has gone thru Bolinas, heard a few White-crowns. This ♂ was right at the edge of the water, then flew up on the cliff edge, where I shot it. Saw no others in the general area. There were Song Sparrows and American Goldfinch. The cliff was grass, lupine, and other ~~coastal~~ scrub.

June 20 Near Bolinas, 200± ft., Marin Co., Calif. - Shot 2 birds in different localities, but only about ½ mile from each other, about 8 P.M. The first (335) was just at the top of Mesa Rd., and was accompanied by at least one other White-crown; another bird (sp.?) flew away from the original sighting with these 2. This bird was first seen singing on a fence post at the edge of a

Banks
1958

Zonotrichia leucophrys

June 20 Near Bolinas, 200 ± ft, Marin Co., Calif. - cont'd. - pasture. Then the 3 birds flew across the road to a row of Eucalyptus; this bird was shot from one of these trees. Much Baccharis lining the fence row. The second bird (336) was sitting in the dead top of a 5-ft. Baccharis, in a large clump of Baccharis, Rubus, + Rhus, in a meadow. There was another bird, probably the mate, but could not get it. All through the area, in the coastal scrub, white-crowns are common and often heard singing. Both the birds obtained tonight had some fat.

June 21 In the same general area this afternoon, the road leading to Palomarin Nursery. The area is mainly pasture, with large clumps of brush as described above. The birds are very wary and hard to get; got one 1st year bird out of a flock of 6 or 8, in a weedy area between two dried fields. Saw one bird carrying food. ~~nest~~. Saw fully grown young of the year, and from behavior judge they are on a second (a late) brood. They seem to be in groups, or very close territories. Some were in fields of cut hay. In these brushy areas I also found Thryomanes bewickii, Aphelocoma coerulescens, Melospiza melodia, Chamaea fasciata, and one flock of Psaltriparus. In the fields were Sturnella neglecta, and Agelaius phoeniceus.

Zonotrichia leucophrys

June 22 Near Bolinas, 200±ft. Marin Co., Calif. — Went back to this area a little after 7AM. Got one bird from the top of a juniper, in the same place as 336. Yesterday shot a ♂ (singing) from the same perch as 336, but lost him. This one (338) was only a few yards away from that spot. Saw some recently fledged young here. Shot another bird a little farther along in the same field (339). this ♂ was originally in the thick stuff, but flew to the edge of a small clump where I was able to get him.

June 29 A little farther W. in same area, from about 0830 to 0930, got 4 birds with 4 shots. All are apparently 1st year birds. #342 was taken from a bush where it was sitting with another, presumably juvenile, bird. #343 was carrying a grasshopper in its bill. ~~It may be the mate~~ #344 was shot from a telephone wire. In one place the birds seemed to be in a flock, several birds moving away together. I also noticed this last week.

July 9 Shot a first year bird on the bluff. It was feeding in the grass on an old trail. (#345)

July 12 Saw a bird near one calling for food. Later (few minutes) got one from there, I think the same one. 346. It was a ♂ with small testes, very worn plumage. Shot him right where the road enters the beach.

July 19 Near Bolinas, sea level-200 ft., Marin Co., Calif.
Got one bird very close to where I obtained the first one a few weeks ago, just at the top of Mesa Rd. It was in a long clump of Baccharis along a fence, right along the road. #347. It is a ♂ with enlarged testes that I could not measure.

July 22 Shot a bird (♀, 348) ~~at~~ near the entrance to Agate Beach, same area as 346. This one was with a speckled bird of the year; may be mate of 346. Well developed broodpatch, ovary degenerated.

Aug 6 Mosquito Lakes, 8000 ft., Alpine Co., Calif. — Ned Johnson + Jim Anderson reported White-crowns common here a month ago. Spent all day in the area today, and nary a white-crown. Saw one (probably) lower down, about 7000-7500 ft. None at 6500 ft., Big Meadows.

Sep. 18. 1 mi N, 2 mi E Martinez, salt marsh, Contra Costa Co., Calif.
In Baccharis on slope at edge of marsh, found a rather large flock of white-crowns. Collected 1 bird in imm. plumage. The bird had an unossified skull and tes. 1 mm. long. 22.8 gm. RCB 373 ♂.

Oct. 1 U.C. Campus, Berkeley, Alameda Co., Calif. — Trapped 1 bird yesterday, let him go. Today trapped 3 birds in same trap. First one was banded, 23-151601. I had banded it Mar 16, 1956 as ad ♂

Banks
1958

Zonotrichia leucophrys

cont'd.

Oct. 1 Berkeley, U.C. Campus, Alameda Co., Calif. thus this bird is now 4½ years old. Later had another banded bird, 24-180303, ad. plumage. Was banded as a nestling Apr. 8, 1957, at SE corner of Univ. + Fulton (Oxford) Ave's, Berkeley. After dark had a third bird - took him home to band with 24-180321. Bird was released at 2214 Haste St.

Oct. 2 Another bird in ~~it~~ another trap. 24-180322, this bird showed a large number of feathers in sheath on the rear of the crown.

Oct. 3 Banded 24-180323 in p.m. Had 1 or 2 pin feathers on the neck, no molt on head. Crown stripe seemed narrow and white feathers were somewhat dark tipped.

Oct. 5 Retrapped 24-180322 in same trap. I did not now see any sign of molt on head. Later got 23-151601 again, in different trap than before.

Oct. 6 Some birds escaped from traps today. Caught 180321 on Bancroft, after I had released him at home.

~~1950~~

~~Pebble Beach, Sea Level, San Mateo Co., Calif~~

Banks, R.C.

1959

Catalogue

nos. 379-714

Banks
1959

Catalog

5 mi NE Vallejo, Solano Co., Calif.

Feb. 5, 1959

379. ♂ Eremophila alpestris 32.7 gm. Tes. 2 mm. skull comp. ossified

1 mi. E Pebble Beach, Dias Ranch, 250 ft., San Mateo Co., Calif.

April 18

380. ♂ Zonotrichia leucophrys 33.0 gm. tes. 10×6 mm. fat.
381. ♂. " " 31.5 gm. tes. 9×5 mm, fat (neck)

April 19

382. ♀ Zonotrichia leucophrys 27.1 gm. no brood patch largest ova 3 mm. dia.

Pebble Beach, sea level, San Mateo Co. Calif.

383 ♂ Zonotrichia leucophrys 29.4 gm. tes. 11×4 mm. fat on neck + axillary regions.
384 ♀ " " 32.8 gm. largest ova 2 mm. well developed brood patch. Very fat.

~~385~~

April 18

385 ♀ Zonotrichia leucophrys 26.0 gm. ova all tiny. extremely fat. no brood patch.
386. ♀ " " 27.2 gm. brood patch slightly fat
387. ♀ " " 26.2 gm. brood patch slight fat
388. ♂ " " 31.4 gm. tes. 10×6 mm. moderately fat.
389 ♂ " " 31.8 gm. tes. 9×6 mm. slight fat
390. ♂ " " 29.2 gm. tes. 8×5 slight fat

1 mi. N Pomponio Beach, 150± ft., San Mateo Co., Calif.

391. ♂ Zonotrichia leucophrys 29.3 gm. tes. 9×5 slight fat
392. ♂ " " 30.1 gm. tes. 9×5 no fat
393. ♀ " " 30.0 gm. ova small, oviduct large, Brood patch.
394. ♀ " " 27.5 gm. ova small, oviduct ~~some~~ enlarged, part. brood patch.
395 ♂ " " 29.4 gm. tes. 11×6 mm
396 ♂ " " 31.1 gm. tes. 11×6 mm.
397 ♂ " " 31.4 gm. tes. 9×6 mm. slight fat.

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1959

Catalog

April 19

1 mi N Pomponio Beach, 150± ft., San Mateo Co. Calif.

398. ♂ Zonotrichia leucophrys 30.8 gm. Tes ~~4~~ 4 x 6 mm. slight fat.

May 1

2.2 mi NW Bolinas, 300± ft., Marin Co., Calif.

399. ♂ Zonotrichia leucophrys 28.1 gm. Tes. 10x6 no fat.
400. ♂ " " 28.0 gm. Tes. 8x6 no fat.
401 ♂ " " 27.2 gm. tes. about 10x7 mm. slight fat
402. ♀ " " 27.5 gm. Brood patch ova to 3 mm. slight fat.
403 ♂ " " 30.1 gm. tes. 9x5 gm.
404 ♀ " " 29.0 gm. brood patch no fat } mates
405 ♂ " " 32.4 gm. Tes 9x? no fat }
406 ♂ " " 30.9 gm. tes. 9x6 mm. no fat
407 ♂ " " 31.0 gm. tes. 9x5 mm no fat
408 ♀ " " 26.8 gm. Brood patch no fat } mates
409 ♂ " " 29.0 gm. Tes. 11x6 no fat }
410. ♂ " " 31.4 gm tes. 10x6
411. ♂ " " 33.9 gm. tes. ~~10x~~ 9x7 near brood patch.
412. ♂ " " 32.2 gm. ~~Tes.~~ 11x6 mm.
413 ♂ " " 30.5 gm. tes 10x6 mm no fat
414 ♀ " " 31.5 gm. Brood patch ova 4 mm slight fat
415. ♀ " " 33.9 gm. Brood patch – 1 mm. egg in oviduct; 3 broken follicles.
416. ♂ Odocoileus hemionus skull only – pick-up sex based on antlers.
417 Thamnophis
418 "
419 "
420. ♂ Hirundo rustica 17.0 gm. tes. 5x3 mm. no fat brood patch?

Banks
1959

Catalog

May 1, 1959

Alpine Dam Rd., ca 2½ mi N Stinson Beach, 900±ft., Marin Co., Calif.

421. Taricha — found on road, all alone.

May 9, 1959

2 mi. N mouth, Ten Mile River, sea level, Mendocino Co. Calif.

422. Thamnophis — DOR

2 mi S Westport, sea level, Mendocino Co., Calif.

423. Thamnophis
424. Rana boylei — all in brackish water; see species acct. (424–432)
425. " "
426 " "
427 " "
428 " "
429 " "
430 " "
431 " "
432 " "

Mouth, Ten Mile River, sea level, Mendocino Co., Calif.

433 Thamnophis
434 "
435. tadpoles of frogs — about 23 (20 small, 3 tiny)
436. ♂ Zonotrichia leucophrys 30.5 Gm. paired Tes. 11×7 mm. no fat
437. ♂ " " 30.7 Gm. tes. 10×6 mm no fat
438. ♂ " " 30.7 Gm. Tes. 9×6 mm.
439. ♂ " " 29.9 Gm. tes. 10×6 mm.

1½ mi N mouth, Ten Mile River, 100±ft., Mendocino Co., Calif.

440. ♂ Zonotrichia leucophrys 28.4 Gm. tes. 11×6 mm.
441. ♂ " " 31.1 Gm. tes. 11×6 mm.

Banks
1959

Catalog

1½ mi N mouth Ten Mile River, 100± ft, Mendocino Co., Calif.

May 9

442. ♂ Zonotrichia leucophrys 28.4 Gm. tes. 10×6 mm. slight fat
443. ♂ " " 29.3 gm. Tes. 9×5 mm
444. ♀ " " 29.3 gm. ova 3+2 mm. beginning brood patch (defeathered) no ruptured follicles.
445. ♂ " " 30.5 gm tes. 10×6 mm.

Mouth of Ten Mile River, sea level, Mendocino Co., Calif.

May 10

446 ♂ Zonotrichia leucophrys 26.8 gm. tes. 11×6 mm. no fat.
447. ♂ " " 33.9 gm. tes. 11×7 mm. no fat
448 ♂ " " 30.3 Gm tes. 11×7 mm no fat
449 ♀ fat " " 33.8 gm. well developed brood patch >3 old follicles - oviduct enlarged.
450 ♂ " " 28.3 gm. tes. 9×6 mm.
451 ♂ " " 31.3 gm. tes. 10×7 mm.
452 ♂ " " 26.3 gm. tes 9×6 mm.
453 ♂ " " 29.7 Gm. tes. 11×6 mm.
454 ♀ " " 28.4 gm. some fat - oviduct ~~[illegible]~~ enlarged no brood patch ~~ova~~ 3 mm.
455 ♂ " " 28.1 gm. Tes. 11×7 mm.
456 ♂ " " 29.2 gm. Tes. 9×5 mm.
457 ♂ " " 29.4 gm. Tes. 10×7 mm.
458. ♀ " " 31.9 gm, oviduct enlarged - no ruptured follicles - ova to 4 mm. early brood patch
459. ♂ " " 28.3 gm. Tes. 10×6 mm
460 ♂ " " 28.1 gm. Tes. 9×5 mm
461 ♂ " " 28.6 gm. tes. 9×5 mm
462. ♀ " " 32.8 gm egg in oviduct - one ruptured follicle - ova 4+5 mm diam.
463. ♂ Chaetura vauxi 16.5 gm. tes. 4 mm.

\ \ \ \ \

Banks
1959

Catalog

Inspiration Point, Tilden Park, 1050 ± ft., Contra Costa Co., Calif.

May 23, 1959

464 ♂ Zonotrichia leucophrys 26.0 gm. Tes. 9×6 slight fat.

Prosser Creek, 5600 ft., 1 mi. S, 2 mi. E Hobart Mills, Nevada Co., Calif.

May 24, 1959

465. ♂ Zonotrichia leucophrys 31.0 gm. Tes. 9×6 no fat
466. ♂ " " 31.2 gm. Tes. 12×7 no fat
467. ♂ " " 26.6 gm. tes. large
468. ♂ Pooecetes gramineus 24.7 gm. tes. 9×7 mm slight fat.

~~Middle Martis Creek, 6000 ft., 4 mi. E, 3 mi. S Truckee, Placer Co. Calif.~~

~~469. Dendroica auduboni 11.9 gm.~~

June 4, 1959

Univ. Calif. Campus, Berkeley, Alameda Co., Calif.

469. ♂ Zonotrichia leucophrys 28.6 gm. Tes. 8×5 mm. slight fat.

June 8, 1959

Coyote Peak, 3000 ± ft., Humboldt Co., Calif.

470. ♀ Zonotrichia leucophrys 27.5 gm. brood patch. egg in oviduct
471. ♀ " " 26.8 gm. brood patch. egg in oviduct
472. ♂ " " 25.0 gm. Tes. 10×6
473. ♂ " " 27.3 gm. Tes. 12×6
474. ♂ " " 23.7 gm. Tes. 8×6
475. ♂ " " 26.5 gm. Tes. 10×6.

June 9, 1959

476. ♂ Zonotrichia leucophrys 27.0 gm. Tes. 10×6 mm.
477 ♀ " " 23.8 gm. brood patch.
478 ♂ " " 23.4 gm. tes. 9×7 mm.

Banks
1959

Catalog

3.1 mi N, 1 mi W Fort Dick, sealevel, Del Norte Co., Calif.

June 9, 1959

479. Thamnophis
480. "
481. "
482. "
483. "
484. "
485. ♂ Zonotrichia leucophrys } MATES 27.9 gm. Tes 9×5 slight fat
486. ♀ " " } 25.0 gm. brood patch no recently ruptured foll.
487. ♂ " " 25.8 gm. Tes. 10×5 slight fat

June 10.

488. ♂ Zonotrichia leucophrys } Mates 26.1 gm. tes. 11×6 mm.
489. ♀ " " } 24.9 gm. broodpatch no recent laying.
490. ♂ " " 28.7 gm. tes. 10×6 mm.
491. ♀ " " } MATES 25.8 gm Broodpatch no recent rupt. foll.
492. ♂ " " } 25.3 gm Tes. 8×5 mm.
493. ♂ " " 25.1 gm. Tes. 10×3 mm.
494. ♂ " " 27.7 gm. Tes. 9×6 mm.
495. ♂ " " 25.4 gm. Tes. 11×6 mm.
496. Thamnophis
497. "
498. "

June 11

499. ♂ Zonotrichia leucophrys 24.5 gm. Tes. 10×5 mm.
500. ♂ " " 25.3 gm. Tes. 12×6 mm
501. ♂ " " 25.2 gm. Tes. 9×7 mm.
502. ♀ " " 24.3 gm. Broodpatch

Banks
1959

Catalog

3.1 mi N. 1 mi W Fort Dick, sea level, Del Norte Co. Calif.

June 11

503 ♂ Zonotrichia leucophrys 27.9 gm. Tes. 10×6 mm.
504 ♂ Parus atricapillus 11.4 gm. Tes. 5×3 no fat
505 ♀ Zonotrichia leucophrys ~~25.2 gm~~ 29.9 gm. Egg in oviduct
506 ♂ " " 27.6 gm.
507 ♀ " " 25.2 gm. Brood patch

June 12.

508 ♂ Zonotrichia leucophrys 26.7 gm. tes. 9×7 mm.
509 ♂ " " 27.4 gm. Tes. 10×7 mm.
510 ♀ " " 25.8 gm. Brood patch
511 ♂ " " 27.6 gm. tes. 10×6 mm.
512 ♀ " " 25.9 gm. Brood patch no recently rupt. foll.
513 ♀ " " 25.8 gm. Brood patch — no recently rupt. foll.
514 ♂ " " 28.0 gm, tes. 12×7 mm.
515 ♂ " " 26.8 gm. tes. 10×6 mm.
516 ♂ " " 25.5 gm. tes. 11×6 mm.
517 ♂ Parus rufescens 10.9 gm. tes. 6×5
518 Thamnophis
519 ♂ Zonotrichia leucophrys 27.6 gm. tes. 9×7 mm.

June 13

520 Thamnophis
521 "
522 "
523 "

Banks
1959

1 mi. S Shore Acres, 500±ft., Coos Co., Oregon

June 14

524 ♀ Zonotrichia leucophrys 22.1 gm. broodpatch
525 ♀ " " 22.7 gm. broodpatch
526 ♂ " " 25.4 gm. tes. 10×7 mm.
527 ♂ " " 24.5 gm. tes. 9×6 mm.
528 ♂ " " 26.2 gm. tes. 11×7 mm.
529 ♀ " " 23.2 gm. Broodpatch
530 ♂ " " 24.3 gm. tes. 13×7 mm
531 ♂ " " 25.7 gm. tes. 12×6 mm.
532 ♀ " " 23.8 gm. Broodpatch
533 ♂ " " 24.3 gm. tes. 10×6 mm.
534 ♂ " " 25.2 gm. tes. 11×7 mm.
535 ♂? Juv. " " 16.9 gm. —
536 ♂ " " 24.9 gm. tes. 9×6 mm.

June 15

537 ♂ Zonotrichia leucophrys 26.5 gm. tes. 11×7 mm.
538 ♀ " " 32.7 Gm. very fat - broodpatch - shelled egg in oviduct, 2 rupt. foll.
539 ♀ " " 22.3 gm. broodpatch
540 ♂ Spinus pinus 13.1 gm. very fat - crop full. tes. 6×4 mm.

2 mi. S Shore Acres, 700±ft., Coos Co., Oregon

541. ♀ Zonotrichia leucophrys 23.8 gm. broodpatch

1 mi. S Shore Acres, 500±ft. Coos Co., Oregon

June 16

542 ♀ Molothrus ater 34.2 gm. egg in oviduct
543 ♂ Zonotrichia leucophrys 25.3 gm. tes. 10×6 mm.
544 ♂ " " 24.2 gm. tes. 10×6 mm.
545 ♀ " " 23.0 gm. Broodpatch

Banks
1959

Catalog

1 mi. S Shore Acres, 500± ft., Coos Co., Oregon

June 16

546. ♀ Zonotrichia leucophrys 25.9 Gm. broodpatch - egg in oviduct ova 2.5, +3 mm.
547. ♀ " " 22.6 gm. Brood patch 5 mm ova. } Mates
548. ♂ " " 23.9 gm. tes. 12×6 mm. } Mates
549. ♂ Juv. " " yg. of 547+548 18.2 gm. —
550. ♀ " " 27.8 gm. egg in oviduct - 3 rupt. foll.
551. ♂ " " 26.1 gm. tes. 10×6.
552. ♂ " " 24.4 gm. tes. 10×7 mm.
553 Thamnophis
554 Snake
555 Tadpoles (8)

June 14

556 Gerrhonotus

Sunset Bay State Park, sea level, Coos Co., Oregon

June 17

557. Gerrhonotus,

6 mi S, 5 mi W Tillamook, 400± ft., Tillamook Co., Oregon.

June 18

558. ♂ Zonotrichia leucophry. 25.4 gm. tes. 10×6 mm.
559. ♀ " " 27.3 gm. broodpatch. egg in oviduct fat. 3 rupt. foll.
560. ♀ " " 23.0 gm. broodpatch ova to 3 mm. fat.
561 Taricha granulosa
562 " "
563 " "
564 " "
565 " "
566 " "

Banks
1959

Catalog

June 18

6 mi S, 5 mi W Tillamook, 400± ft., Tillamook Co., Ore.

567 Taricha granulosa
568 " "
569 " "
570 " "

Netarts Bay spit, sea level, Tillamook Co., Oregon

571 ♂ Zonotrichia leucophrys 25.5 gm. tes. 11×7 mm.
572 ♀ " " 22.6 gm. brood patch
573 ♂ " " 22.4 gm. tes. 12×6 mm.
574 ♂ " " 25.2 gm. tes. 9×5 mm.
575 ♂ " " 27.1 gm. tes. 9×7 mm.
576 ♂ " " 26.9 gm. tes. 11×6 mm.
577 ♂ " " 27.0 gm. tes. 10×7 mm.
578 ♀ " " 24.5 gm. brood patch
579 ♂ " " 25.9 gm tes. 8×6 mm.
580 ♂ " " Mates { 25.6 gm. tes. 10×7 mm.
581 ♀ " " 24.0 gm. broodpatch }
582 ♀ " " Mates { 24.3 gm. broodpatch
583 ♂ " " 25.3 gm. tes. 9×5 mm. }
584 ♀ " " Mates { 23.5 gm. broodpatch
585 ♂ " " 26.1 gm. tes. 11×7 mm. }
586 ♂ Passerculus sandwichensis 18.9 gm. tes 8×6 mm
587 Thamnophis

Banks 1959

Catalog

4½ mi. S, 4 mi. W Tillamook, sea level, Tillamook Co., Ore.

~~588~~ June 19

588	Taricha granulosa			
589	" "			
590	" "			
591	" "			
592	Hyla regilla			
593	" "			
594	" "			
595	" "			
596	Bufo boreas			
597	" "			
598	" "			

June 21

4 mi. S Westport, sea level, Grays Harbor Co. Wash.

599	♂	Zonotrichia leucophrys	26.8 gm.	tes. 12×7 mm.
600	♂	" "	23.5 gm.	tes. 10×6 mm.
601	♀	" "	25.6 gm.	broodpatch
602	♂	" "	26.2 gm.	tes. 11×5 mm.
603	♂	" "	27.5 gm.	tes. 10×6 mm.
604	♂	" "	26.2 gm.	tes. 9×5 mm.

June 22

605	♀	Zonotrichia leucophrys	broodpatch 28.8 gm.	egg in oviduct ova to 8 mm.
606	♂	" "	24.3 gm.	tes. 8×7 mm.
607	♂	" "	26.1 gm.	tes. 10×7 mm.
608	♀	" "	25.3 Gm.	broodpatch
609	♂	" "	25.6 gm.	tes. 12×5 mm.
610	♂	" "	25.0 Gm.	tes. 10×6 mm.

Banks
1957

Catalog

4 mi S Westport, sea level, Grays Harbor Co., Wash.

June 22

611. ♀ Zonotrichia leucophrys } mates 26.6 gm. broodpatch
612. ♂ " " 26.7 gm. tes. 11×7 mm.

2 mi. S, 3 mi. E Westport, sea level, Grays Harbor Co., Wash.

613. ♀ ~~♂~~ Zonotrichia leucophrys. 25.7 gm. broodpatch
614. ♂ Chordeiles minor 73.7 gm. tes. 8×5 mm. skull comp. oss.

4 mi S Westport, sea level, Grays Harbor Co., Wash.

June 23

615 ♂ Zonotrichia leucophrys 23.0 gm. tes. 9×6 mm.
616 ♂ " " 24.3 gm. tes. 10×6 mm.
617 ♂ " " 25.6 gm. tes. 11×6 mm.
618 ♂ " " 27.1 gm. tes. 10×7 mm.
619 ♂ " " 23.6 gm. tes. 10×7 mm.
620 ♀ " " 28.2 gm. broodpatch.
621 ♂ " " 28.8 gm. tes. 9×6 mm.

June 25

1½ mi S Ladysmith, 200±ft., Vancouver Is., B.C.

622. ♂ Zonotrichia leucophrys 24.2 gm. Tes. 12×7 mm.
623. ♂ 24.3 gm. tes. 11×7 mm.
624. ♂ 27.3 gm. tes. 10×6 mm.

4 mi S Ladysmith, Vancouver Is., B.C.

625. ♂ Zonotrichia leucophrys 24.9 gm. tes. 9×5 mm.
626. ♂ " " 26.9 gm. tes. 9×7 mm.
627. Thamnophis

Banks
1959

Catalog

June 26

2½ mi N Parksville, Vancouver Is., B.C.

628 ♀ Zonotrichia leucophrys 27.2 gm. broodpatch. Eggs in oviduct 2 rupt. foll. ova 8+6 mm

629 ♂ " " 26.1 gm. tes. 10×7 mm.

630 Thamnophis

1½ mi N, ½ mi W French Creek, Vancouver Is. B.C.

631 ♀ Zonotrichia leucophrys. 27.0 gm. broodpatch. 1 small rupt. foll.

11½ mi. W Parksville, Vancouver Island, B.C.

632. ♂ Zonotrichia leucophrys 24.1 gm. tes. 10×6 mm.

633 Gerrhonotus

June 27

634. ♂ Zonotrichia leucophrys 26.0 gm. tes. 11×6 mm.

635. Thamnophis

19 mi. W Parksville, Vancouver Island, B.C.

636. ♀ Empidonax hammondii 10.0 gm. broodpatch.

June 28

Kye Bay, Comox, Vancouver Is., B.C.

637 ♂ Zonotrichia leucophrys tes. 10×7 mm. 25.4 gm.

638 ♂ " " 27.4 gm. tes. 9×7 mm.

639 ♀ " " 23.1 gm. Broodpatch

640 ♂ " " 25.0 gm. tes. 9×5 mm.

641 Thamnophis Lost alive in MVZ.

June 29

Oyster River, Vancouver Island, B.C.

642 ♂ Zonotrichia leucophrys 24.3 gm. tes. 10×6 mm.

643 ♂ " " 24.7 gm. tes. 12×7 mm. } Mates

644 ♀ " " 23.2 gm. Broodpatch. } Mates

645 ♂ Spizella passerina 11.8 gm. Tes. 5×5 mm.

Banks 1959

Catalog

June 29

Oyster River, Vancouver Island, B.C.

646 Thamnophis

647 Aneides ferreus

648 " "

649 " "

650 " "

651 " "

652 " "

653 Thamnophis

654 ♂ Zonotrichia leucophrys 25.6 gm. tes. 10×6 mm.

Macauley Rd., 14 mi. N Courtenay, Vancouver Id., B.C.

655 ♀ Zonotrichia leucophrys 24.1 gm. broodpatch.

656 ♂ " " 25.6 gm. tes. 13×8 mm.

657 ♂ " " 25.9 gm. tes. 10×7 mm.

(mates: 655 & 657)

Harts Pass, 6200± ft., Okanagan Co., Wash.

July 1

658 ♂ Passerella iliaca 26.6 gm. —

July 2

659 ♂ Junco oreganus 17.2 gm.

660 ♂ Perisoreus canadensis 66.4 gm. tes. 3 mm. molting.

661 ♂ Zonotrichia leucophrys 26.6 gm. tes. 11×7 mm. fat

662 ♂ Passerculus sandwichensis — tes. 11×6 mm

663 ♂ Passerella iliaca 28.3 gm. tes. 8×6 mm. slightly fat

664 ♀ Spinus pinus 11.7 gm. ova small - broodpatch.

665 ♂ Anthus spinoletta 19.9 gm. tes. 8×6 mm. slight fat

Slate Peak, ca 6900± ft., Okanagan Co. Wash.

666 ♂ Leucosticte tephrocotis 26.5 gm. tes. 4 mm. mod. fat.

Catalog

Harts Pass, 6200 ± ft., Okanagan Co., Wash.

July 2

667 ♀ Eutamias — no embryos - mammae developed. 227-93-32-16 67.1 gm.

July 3

668 ♂ Parus gambeli 12.2 gm. tes. 7×7 mm. } mates.
669 ♀ " " 11.5 gm. brood patch }
670 ♀ Spizella passerina 13.8 gm. had laid
671 ♂ Sialia currucoides 29.5 Gm. tes. 10×8 mm. slight fat
ova small (3 mm).
672 ♀ Zonotrichia leucophrys 28.2 gm. Broodpatch

Chelan Falls, Chelan Co., Wash. (road kill)

673. ♂ [illegible] 900-150-—-80 16 1/2 lbs. Hind feet removed.

July 8

Jackass Meadow, 7300 ± ft., Fresno Co., Calif.

674. Sceloporus
675. "
676. "
677. "

July 9

~~678~~ Kaiser Pass Meadows, 9100 ± ft., Fresno Co., Calif.

678 ♀ Zonotrichia leucophrys 23.5 gm. Broodpatch.
679 ♀ " " 25.1 gm. Broodpatch slight fat
680 ♀ " " 27.2 gm. Broodpatch
681 ♀ " " 26.1 gm. slight fat Broodpatch ova to 3 mm. } mates } family
682 ♂ " " 28.1 gm. tes. 12×8 mm. } mates } family
683 ♂ Juv. " " 27.0 gm. ——— } family
684 ♂ Juv. " " 29.0 gm. ———
685 ♀ " " 23.6 gm. Broodpatch
686 ♀ " " 25.0 Gm. Broodpatch

Banks
1959

Catalog

Kaiser Pass Meadow, 9100±ft. Fresno Co., Calif.

July 9

687 ♂ Zonotrichia leucophrys 27.0 gm. tes. 7×4 mm.
688 ♂ " " 29.8 gm. tes. 11×6 mm. skull oss.
689 ♂ Pinicola enucleator 44.3 gm. tes. 2 mm.

July 10

690 ♂ Zonotrichia leucophrys 26.4 gm. tes. 11×7 mm.
691 ♀ " " 23.8 gm. Broodpatch.
692 ♂ " " 25.7 gm. tes. 9×5 mm.
693 ♂ " " 30.0 gm. tes. 13×8 mm.
694 ♂ " " 31.1 gm. tes. 13×8 mm.
695 ♀ " " 29.4 gm. Broodpatch
696 ♀ " " 24.6 gm. Broodpatch
Discarded ~~697 ♂ Carpodacus cassinii 27.6 gm. tes. 7×4 mm~~
698 ♂ Citellus 187-45-37-14 62.5 gm.

July 11

.8 mi. S Kaiser Pass, 8800±ft., Fresno Co., Calif.

699 ♂ Zonotrichia leucophrys 26.3 gm. tes. 12×8 mm.
700 ♂ " " 27.9 gm. tes. 13×7 mm.
701 ♂ " " 28.1 gm. tes. 13×8 mm.

July 19

Manhattan Mines, 1½ mi. NW Knoxville, Napa Co., Calif.

coll. R. Graham
702 ♂ Zenaidura macroura 82.2 gm.

Banks
1959

Catalog

Sagehen Creek Exp. Sta., 6400±ft., 3 mi NW Hobart Mills, Nevada Co., Calif.

Oct. 2, 1959.

703 ♀ Junco oreganus 20.8 gm. molt. (trapped by John Hopkins)

Oct. 3

704 ♂ " " 21.0 gm. 1mm. sk. mod. fat. (trapped by John Hopkins)

705 ♀ Melospiza lincolnii 16.8 gm. 2mm. sk. slight fat "

3.6 mi. N 1.8 mi E Calpine, 4950± , Plumas Co, Calif.

706 Spizella 13.9 gm, ad. sk. very fat.

707 ♂ Zonotrichia leucophrys 26.5 gm. ad sk. mod. fat.

708 ♂ " " 24.8 gm. 1mm. sk. slight fat

1.5 mi E Calpine, 4925 ± ft, Sierra Co., Calif.

709 ♂ Zonotrichia leucophrys 26.4 gm. ad. sk.

Oct. 4

3.6 mi. N, 1.8 mi. E Calpine, 4950 ± ft., Plumas Co., Calif.

710 ♂ Sphyrapicus thyroideus 56.0 gm. very fat

Dec. 4, 1959

Madera Canyon, Santa Rita Mts., Santa Cruz Co., Ariz.

711. ♀ Aphelocoma ultramarina. skel. only bird held captive by J. Brown. see sp. acct.

Nov. 15

Tomales Point, 250± ft., Marin Co. Calif.

712. ♂ Chamaea fasciata 14.7 gm. caught in mouse trap by John Hopkins.

713. ♂ Calypte anna 4.3 gm.

July 30, 1959 (?)

— no data

714. ♂ Pheucticus melanocephalus 45.6 gm. skull unossified. this bird found in MVZ freezer w/ Bill Thompson's name and the above date. No further information.

Banks, R.C.

1959

Journal

Banks
1959

Journal

Feb. 5 5 mi NE Vallejo, Solano Co. Calif. – Dan Wilhoft and I were out shooting birds for Zool. 113 in this area. Saw many large flocks of Redwings* and Brewer Blackbirds*, but they would not let us approach very close – we were too late in the day (8-11 A.M.) They were mainly in pasture with cattle or in young wheat(?) fields. Also saw many Western Meadowlarks*, Horned Larks*, and smaller numbers of: Zonotrichia, Passer, Scrub Jay, Shrikes, Lesser Goldfinch*, Oregon Junco*, Audubon Warbler*, Sparrow Hawk, Robin, Savannah Sparrow* Red Tailed Hawk. Asterisks* represent species we shot. I saved one horned lark to put up. (#379 ♂)

Apr. 18 Pescadero area, San Mateo Co, Calif. – Arrived here today about 7:30 A.M. Warm + sunny, but windy. There is very little place to shoot birds here – the road is very close to the ocean, and inland from the road is all farmed and/or posted. First collecting area was Pebble Beach where I got 6 Zonotrichia leucophrys. Also saw many Song Sparrows, Amer. Goldfinch, Yellowthroat, Marsh Hawk, Red Tailed Hawk, Brewer Blackbird, House Finch, Golden-Crowned Sparrow (10+) 3 Black Turnstones (?) and Western Gulls. Farther up the road saw Flicker. Second shooting area ~~[illegible]~~ 1 mi. N. Pomponio Beach 150 ft. This is a high

Banks
1959

Apr. 18 Pescadero area, San Mateo Co., Calif. - cliff top, with lots of Baccharis + sage(?). Here got 6 White-crowns, staying here till just after noon. Drove to town of Pescadero, then north along Old Coast Road for a while, all posted. Tried South along that road - all posted. On inland (east) side of the road belongs to J. Arias + Sons. I looked them up in Pescadero + got permission to shoot ~~birds~~, then couldn't get but 2. Birds were concentrated along the road, few in fields. Here added Wren-tit to my list, + Scrub Jay. Saw the Sheriff's men while hunting Mr. Arias. they say no shooting in the Co. except at ranges, etc., unless w/ written permission of land owner. Also they mentioned no shooting at beach. Glad they told me too late. Now is cool + windier, + I am on beach, 4 p.m. Will try hunting again just before dark. The third locality I am calling 1 mi E Pebble Beach, 250 ft, Arias Ranch. The object of this trip is to collect as many White-crowned Sparrows as possible, putting them on dry ice (¢.10/lb., min $2.00) to put up during next week. Have moved back to Pomponio Beach area now - too cold at beach, not much better here, but birds are here + I can shoot fairly safely. Maps for this trip are 7½ min Quads, 1955, Pigeon Point and San Gregorio.

Journal

Apr. 19 Pescadero area, San Mateo Co., Calif. - Got up about 6 shot #16 in the open area at the Pomponio area. Birds wild here now. The day started dark, not foggy, but overcast. Moved to the Pebble Beach area, got 17+18, a pair. Few birds here, but in a field saw several in what may have been a flock. 1 mi E Pebble Beach got no 19. Added the following birds to my list today: flock of Bonaparte Gulls 15-20, flying N along coast; Redwing, Great Blue Heron, inland saw Calif. Quail many Yellowthroats, and Pileolated Warbler. At Pebble Beach saw flock of 13 plovers (Black-bellied) in winter plumage in freshly seeded field. Too many people + too wild birds - poor shooting today. Left area about 10 a.m.

May 1 Bolinas area, Marin Co., Calif. - Arrived here about 7 A.M. The morning was frustrating - birds were scarce, not singing, and very wary. By 8 O'clock had only 2 birds. Drove along Mesa Rd. to Palomarin Nursery, and was refused permission to shoot on their property. This is a religious outfit, and owns 4000 acres. The next big chunk of land back toward Bolinas is owned by R.C.A., leased by

May 1 Bolinas area, Marin Co., Calif. - S.E. (Steve) Balgon. Mr. Balgon, who I saw about noon, allowed me to shoot on this land. By the time I met him, I had 8 birds, had visited several areas with poor luck. The only shootable area with birds was along Mesa Rd., in the RCA area. The best bet was shooting right along the road. In the afternoon I went along the N. side of this road, into the brushy fields, and got up to 18 birds for the day, plus one Barn Swallow. Picked up 3 garter snakes. Left the area about 4:30 - came back on the road directly across Rt. #1 from the Bolinas ~~area~~ road, which led to the hilltop + toward Alpine Lake. Beautiful drive. Picked up a newt (Taricha) somewhere E of Alpine Lake. In the shooting area, saw: Song Sparrow, Scrub Jay, Calif. Quail (see notes), Bewick Wren, Anna Hummingbird (very abundant), Raven, Brewer Blackbirds, Plain Tit, Pileolated Warbler, Red-tailed Hawk, Turkey Vulture, a flock of about 10 Golden-crowned Sparrows, Spotted Towhee, Barn Swallow, Rough Winged Swallow, Redwing. Along the coast, Rt. 1, from Stinson Beach to Bolinas, saw Great Blue Heron, Amer. Egret,

Banks
1959

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May 1 Bolinas area, Marin Co., Calif. Snowy Egret, Dowitcher, Crow, Killdeer, Coot, American Merganser, and a few other things, incl. a Goldeneye. Also, in the RCA area, found a skeleton of a spike-buck deer, of which I brought the skull back.

May 8 Trip to Mendocino Co. Coast - Left Berkeley about 8 p.m. today, Fri. Drove Rt. 101 to Cloverdale, then 128 to the coast. Slept at midnight in Redwoods just a

May 9 few miles beyond Navarro. Up at 6, heard Brown Creeper, Western Flycatcher, Hermit thrush, Russet-Backed thrush, Song Sparrow, and a Pileated Woodpecker. Got on Rt. 1, Coast Highway, just S of Albion. Saw a White-crowned Sparrow very soon - then no more till Mendocino (city). Since my interest in this trip is in White-crowns, most of my notes on vegetation, etc., will be under that species. Stopped at Russian Gulch State Park, N of Mendocino, to look + eat + catch up on notes. Very windy ever since I left home, except in the redwoods. Have seen a number of Turkey Vultures, gulls, and Calif Quail here at the park. Drove on north with a variety of stops. Goldfinches and Song Sparrows common, saw 1 Vaux Swift. Going

Banks
1959

May 9 Mendocino County coast, Calif. - northe, the Violet-green Swallows seemed to replace Barn Swallows. Went as far as Westport, then came south again. The best area so far is around Ten Mile River. Stopped at small beach a couple miles S of Westport, got frogs, no birds. Picked up a couple of garter snakes. Back at Ten Mile River, the Fostori Brothers gave me permission to collect on their property.
During the rest of the afternoon worked in brushy fields, much like the Bolinas area. Saw Wren-tit, Cal Quail not much else. Extremely windy. Ten Mile River here has a very broad flood plain, wet with a few channels. There are Redwings. Swallows are feeding over it. Camped at State Park
May 10 a couple miles N of Fort Bragg. Back at mouth of Ten Mile River - early this a.m. saw Osprey, Mallard, Great Blue Heron, Redwing. Collected again on Fostori place. Saw White-crowned Sparrow, Song Sparrow, Amer. Goldfinch, Flicker, Wren-tit, Cliff Swallows (nesting under bridge over 10 mi. River, as well as Fostori house) Barn Swallow, Vaux Swift, Calif. Quail, Rough Winged Swallow, Pileolated Warbler, Cowbird, Turkey Vulture, Savanna Sparrow, Yellow Warbler, Anna Hummingbird. Left this area about 4pm.

Banks
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May 10 Mendocino Co. coast, Calif. – On return, drove back to Albion (see notes on Zonotrichia leucophrys for this weekend). Altho I saw no birds (White-crowns) between Mendocino and Albion, I feel from second look that there is a little habitat available, and that a scattering of birds could live in this area, but they must be scattered widely. Drove from Albion S to Elk, saw birds along the road. There seems to be better habitat here – more brush.

May 24 Prosser Cr., 5600 ft., 1 mi. S., 2 mi. E Hobart Mills, Nev. Co., Calif. Arrived here about 9 A.M. with Ned K. Johnson. The area is a junction of sage brush and second growth Jeffrey Pine. Ned worked the pine to the East for Empidonax. Prosser Creek has a wide valley here – the stream is 30-35 ft. wide here, 1½ ft deep (probably). It is bordered with grass, mainly, with scattered low (4 ft.) willows and willow thickets. I worked downstream mainly, starting about 3/4 mi. from where the stream crosses the road. The willows seem thicker upstream, toward the road, where there were several fishermen. The slopes of the low valley (10 ft. slopes) are sparsely covered with Sage (Artemisia)

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May 24 Prosser Cr., 5600 ft., 1 mi S, 2 mi E Hobart Mills, Nevada Co., Calif.
and the hills or flatland adjacent is covered with sage or sage + pine. The stream valley, in fact the whole area, has been grazed, but not too recently.

Middle Martis Cr., 6000 ft., 4 mi E, 2 mi S Truckee, Placer Co., Calif.

Spent 3pm – 4:30 looking around here. We were right on the S edge of Martis Valley. The valley floor is pretty flat + sage covered, the slopes pine covered. Several streams in area have willow and/or aspen along them – on this stream, as it got higher there was more aspen, + it was thicker – saw no White-crowns here. Down stream, where there was sage on one side of the creek, there was more willow, less aspen – saw White-crowns birds here.

The following list of birds seen ~~are~~ is from Prosser Cr., with "x" meaning also seen on Martis Cr.

White Crowned Sparrow x
Brewer's Sparrow
Green Tailed Towhee x
Robin x
Brewer Blackbird
Cowbird x
Townsend Solitaire
Oregon Junco x
Song Sparrow x
Spotted Sandpiper

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May 24 Prosser Cr., Middle Martis Cr., Nev. + Placer Co., Calif.

Ash throated Flycatcher
Flicker x
Belted Kingfisher
Sparrow Hawk
Western Tanager (♀)
Pileolated Warbler x
Audubon Warbler x
Yellow Warbler x
Mountain Chickadee
Wright Flycatcher (E. wrightii) x
Mountain Quail
Mountain Bluebird
Vaux Swift
Killdeer
Redtailed Hawk
Poor Will
Lark Sparrow
Vesper Sparrow
the following birds at Martis Creek Only:
Hairy Woodpecker
House Wren
Warbling Vireo
Ruby Crowned Kinglet
Steller Jay

Sceloporus (11 a.m.)
Rana boylei

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Trip to collect White Crowned Sparrows

June 7 Left Berkeley today, Sunday, 7:20 a.m. Went up Rt. 101 to Arcata, Rt. 299 to Willow Springs, then to Hoopa, then "cross-country" on logging roads to Coyote Peak, my first stop. But on the way - at

* Weott, 150±ft, Humboldt Co., Calif. - heard White-crowns - see species account. This valley, containing the So Fork of the Eel River, seems more or less continuous all the way to the coast at Eureka. The birds could have gotten here south thru this series of valleys, or up the So. Fork of the Eel.

June 7-8 Coyote Peak, 3000±ft., Humboldt Co., Calif. - Got here just barely in time to set up camp + get supper before dark. The air is clear, except for some fog over a nearby valley. Next day (8th) up early, to get my first good look at the area. [My map is Coyote Peak quad., 15 min., Corps. Engr.'s, 1952] The bald area here is just that - the top of this ridge is devoid of trees, except for a scattered clump of Garry (?) Oak. Just down slope to the east, and on E on the road toward Hoopa, is an extensive burned + logged area. There are many charred, dead Redwood (?) snags, + the ground is littered with fallen trees + logs. The ground is grass + herb covered, but there is little brush. Maple + Tan Oak seedlings are coming in clumps, 1-3 ft. high, but

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June 8 Coyote Peak, 3000±ft., Humboldt Co., Calif.
there is no sign of seedling conifers. The whole area is dissected with used + unused logging roads — it is really a mess, + hard to walk in. But I spent most of my time there, since that's where the White-crowns are. On the W slope, below the bald, is treed — mostly oak, apparently, but I haven't been down there. The bald itself is grass, with some short Bracken, some cucumber type vines, low lupine, etc. It's very extensive. Gopher Burrows are abundant. Birds today — W. Meadowlark, very common on the bald, Mourning dove, a few pairs, Lazuli Bunting, common in the burn, White-crowned Sparrow, Robin, Steller Jay, Calif. Quail, a covey of about a dozen, plus a few pairs, Cowbird, House Wren, Western WoodPeWee, Olive-Sided Flycatcher, Chipping Sparrow (a few) Junco (a few) Western Bluebird, I think, Sparrow Hawk, Turkey Vulture, Raven, 2 ~~White-throa~~ Vaux Swift. Last night heard a Screech Owl. Shortly after noon, the fog came rolling in — esp. S of Coyote Peak, + between C.P. + Schoolhouse Peak, it really billowed. Got quite cool. It was foggy all afternoon, and about 5 p.m. it was a mist. Now at 6:30 it's foggy + wet, + guess it will stay that way. Cela-vie! Cold, too. Also saw Sapsucker.

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June 9 Coyote Peak, 3000±ft., Humboldt Co., Calif. — The fog turned to mist and the mist turned to rain. All vegetation was dripping wet this a.m. The dawn seemed like a good omen, and it threatened to be a good day. I started out collecting, but it soon started to rain. So I packed up and left. Went out to Rt. 101. This is a better approach to this area - part of the road is paved, sort of. The junction at #101 is not marked, and after a bit it doesn't look like much, but it gets better until entering the bald area. New birds today were Band-tailed Pigeon, Flicker, and some sort of Swallow. Saw Barn Swallow on way out.

3.1 mi N, 1 mi. W Fort Dick, sea level, Del Norte Co., Calif. Here at a new area. Arrived about 2 p.m. Am camped on the Jepson ranch - dairy. There is an old road that once led to a ferry, but now is not used. My tent is right in the middle of it, under a Redwood. It is very shady + cool, out of the wind, not too many bugs. The place is a paradise for birds. Took a walk after supper (put up this morning's birds in the p.m.) and saw: Russet Backed Thrush — very abundant, singing everywhere, Robin, Black-headed Grosbeak, Amer. Goldfinch, Western Flycatcher, Mourning Dove, Song Sparrow, Bewick Wren, Horned Owl (see account) Chestnut Backed Chickadee, Turkey

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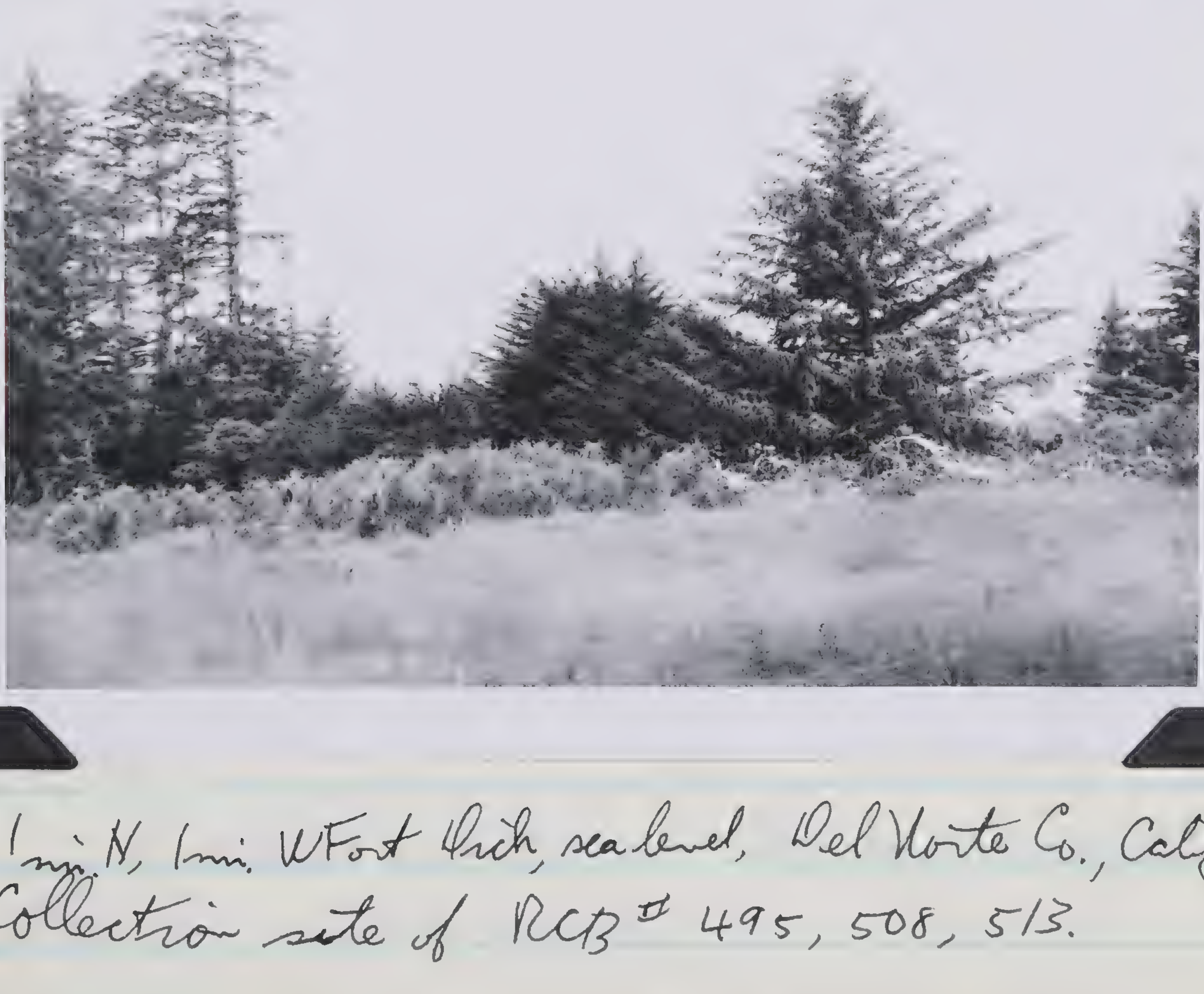
June 9 3.1 mi N, 1 mi W Fort Dick, sea level, Del Norte Co., Calif. Vulture, Tree Swallow, Flicker, Yellow Warbler, Purple Finch, Cedar Waxwing, Crow, Calif. Quail, + White Crowned Sparrow. Also hummingbird + a cormorant. Later heard a Nighthawk. Saw some ~~brush~~ rabbits, garter snakes. Can hear Hyla.

June 10 Late to bed last night, but up + out fairly early this a.m. Got 8 sparrows, and with the 3 shot last evening had quite a job today. Got it done, however. Picked up a few more garter snakes about 5 pm. Today was sunny, warm but with a cool breeze blowing most of the day. Now it is very still. This is quite a pleasant spot. New birds today: Belted Kingfisher, Cowbird, Allen Hummingbird, Western Wood Pe-Wee, Olive-sided Flycatcher, Brewer Blackbird, Band Tailed Pigeon, Great Blue Heron, Raven, Downy Woodpecker. The major shrub in the pastures here, from which I am getting most of my specimens, seem by the pictures in Jepson's manual, to be of the genus Lotus (Leguminosae), but I don't know for sure. Barn Swallow + Cliff Swallow both nesting around Jepson's place + the one at the end of the road. ///

June 11 A bright sunny morning. Got 8 sparrows + a Black-capped Chickadee + was back in camp at 10. About 4:30 it started to mist, then drizzle, now it is raining, but not hard. It looks like it will continue, tho. Will be wet collecting

3.1 mi. N, 1 mi. W, Fort Dick, sea level, Del Norte Co, Calif.
typical pasture habitat of W.C. sparrow.



3.1 mi. N, 1 mi. W Fort Dick, sea level, Del Norte Co., Calif.
Collection site of RCB # 495, 508, 513.

3.1 mi. N, 1 mi. W Fort Dick, sea level, Del Norte Co. Calif.

June 11 tomorrow if not impossible. New birds for this locality today: Savannah Sparrow, Vaux Swift, Black-capped Chickadee [heard before but not recorded] and Red Tailed Hawk.

June 12 Got a late start this morning. Got 9 sparrows and was back in camp before 11, however. The grass was very wet, but it had stopped raining during the night and was overcast in the early a.m. About 10 a.m. a fairly hard, cold west wind started, lasting until about 6 pm., when it got very still, as it is now. It has been cloudy all day. After supper took a short walk, got a Chestnut-backed Chickadee near camp, a garter snake, and a White-crowned Sparrow. Tried to get a Nighthawk until it got too dark. Tonight saw Spotted Sandpiper along the river, and an Ash-throated Flycatcher. Saw a bat - have heard them several evenings.

June 13 Went out about mid-morning to take a few pictures. Didn't see anything new. Put up the skins, shot last night, right after getting up. Got more garter snakes. Left this area about 11 a.m., drove to the Coos Bay area. Pretty country, but very crooked roads.

Sunset ~~Beach~~ Bay State Park, Coos Co., Oregon - Got settled in a campsite here. This is a very nice park - a welcome change after roughing it.

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Sunset ~~Beach~~ Bay State Park, Coos Co., Oregon.

June 13 There seem to be some shooting areas not too far away, although the best are in the park. While trying to find a spot this afternoon, drove on north of North Bend. The area is all sand dune or forest. I had hoped the sand would be covered with brush, but it is apparently barren, except for scattered trees. For a long stretch there were no White-crowns. That area is also inaccesible by car. I am now on the Empire 15 min. quad. of the Corps of Engrs. Birds here in the park are: Olive-backed Thrush, Bewick Wren, White-crowned Sparrow, Robin, Song Sparrow. I can see what appear to be Osprey nests in a couple of tall dead trees.

June 14 It was raining when I woke up, so I slept in a while. Got into the field about 8, and it started to rain again very shortly. Went back to camp, and did odd jobs for a bit. Now, at 9:45, it has cleared a little, but it looks like more rain. I am very unimpressed with this area, as far as White-crowned Sparrow habitat. Outside the park it is clear-cut forest, with a hard chaparral of blueberries, etc., forming a 3-4 ft. thick cover, with very few openings. From what I have seen, the whole Coos Bay area is

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Sunset ~~Beach~~ Bay State Park, Coos Co, Oregon

June 14 poor habitat. Besides the birds listed yesterday, have seen so far today: Pileolated Warbler, Allen Hummingbird, American Goldfinch, Turkey Vulture, Cowbird, Wren-tit, Black-Headed Grosbeak, Raven + Crow both around camp. Also is a Golden-crowned Kinglet singing. Flicker.

1 mi S Shore Acres, 500± ft., Coos Co., Oregon — This is essentially the same location as the park; it is my collecting locality, mostly just outside the park boundary, on top of the ridge. The area here is as previously described — cut, brushy, and in addition it has been burned. On top of the ridge, behind the quarry (on map) there are 3 old abandoned buildings. Barn Swallows are nesting here. The road, not on map, continues to the east. The valleys, or gorges (it is very dissected) still have some timber; mostly thick riparian growth, but occasional conifers. Back of the first ridge there are still some forested patches. Saw Band-tailed Pigeons, Purple Finch, and one female Ruffed Grouse. Saw one Garter Snake. Caught a Gerrhonotus, but it escaped.

June 15 Spent until 5 p.m. today putting up the birds I shot yesterday p.m. Spent from 6:30-9:30 p.m. in the field, in this same area — got, all told, 4 more White-crowns and ~~a~~ Pine Siskin.

1mi S Shore Acres, 500±ft., Coos Co., Oregon
Logged, burned habitat, on slope facing sea.

1mi S Shore Acres, 500±ft., Coos Co., Oregon.
a Hidden Valley, mostly burned, some good timber on far side.

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June 15 1 mi S Shore Acres, 500±ft., Coos Co., Oregon; —
A little farther along this trail than I had been yesterday, there opens on the left a large valley. This is generally the cut-burned aspect of the rest of the area, but the ravines on the North slope still have some groves of standing pine, and there are extensive patches of riparian growth in the bottom, where there is apparently a stream. The trail leads on south, and I followed it to nearly the end. There is a beautiful view — It is nice country in spite of the poor forestry. I went as far as:
1 mi S Shore Acres, 700±ft., Coos Co., Oregon, where I obtained one of my specimens. On this high ridge, saw a pair of Red Tailed Hawks
1 mi S Shore Acres, 500±ft., Coos Co., Oregon —
Saw Tree Swallows at the edge of this valley. Also, back at camp, saw Belted Kingfisher and Western Flycatcher.

June 16 Got a late start. Collected in same general locality. Entered the riparian habitat in the bottom of the large valley briefly. It is very dense — mostly Alder —, there is a stream, apparently a dendrite of small streams. Birds were scarce, but it was noon. The area was very cool + moist, lots of fallen logs, but no salamanders. Got back to camp late, worked till after dark skinning,

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June 16 1 mi. S Shore Acres, 500±ft, Coos Co., Oregon

June 17 still didn't get done. Worked till afternoon finishing skins + herps. New birds for the area yesterday - Orange-crowned Warbler, Steller Jay, Cedar Waxwing.

Talked to the park ranger about the cutting and burning of my collecting area. He had no idea of when it occurred, but it was a long time ago (20 yrs perhaps). Bruce Barker, the park foreman, brought his family around to see my operation. Unfortunately I had finished, but showed them my results. They spoke of birds that were probably the Towhee + Bullock Oriole (see sp. account). The older boy also knew where to find "Water Dogs". Left this area about 3 p.m., after catching a Sorex(?) in the ♂ shower room. Stopped at the Coos Bay Marine Station to see Cadet Hand + family. It was 4 p.m. by the time I got away. Shortly after leaving the city of North Bend, it became overcast + foggy. It was that way, plus occasional drizzles, all the way to Tillamook Co., where I am camped at Cape Lookout State Park, SW of the town of Tillamook, + where I am writing. Got here about 8 pm, pitched camp in dark, almost in rain.

June 18. Cape Lookout State Park, Tillamook Co., Oregon
This morning is dark, with a high fog. Can hear Golden Crowned Kinglet, Robin, White-crowned Sparrow, Olive-backed thrush.
6 mi. S, 5 mi. W Tillamook, 400 ft., Tillamook Co., Oregon
Hunted for a while in this recently logged area. White-crowns are here, but widespread and very wild. The ground is muddy, and there is little or no grass. Brush is fairly thick, and there are many fallen logs. Birds here: olive-sided Flycatcher, Band-tailed Pigeon, Song Sparrow, Black-headed Grosbeak, Pileolated Warbler, Orange-crowned Warbler, Barn Swallow, Amer. Goldfinch, allen (?) Hummingbird, Steller Jay, OBthrush. Back in campsite also the jays & warblers, also Oregon Junco, Western Flycatcher, Chestnut Backed Chickadee, Hairy Woodpecker.
~~Netarts Bay~~ Also here in the logged area, which is owned by Crown Zellerbach, saw Chipmunk and a deer. Caught some Newts. There are several rather rapid streams going thru here.
Netarts Bay spit, sea level, Tillamook Co., Ore.
In the afternoon hunted on this spit, which extends from State Park land. It is grassy & herbaceous in many places, with thicker brush of peashs, Rosa, etc., in some areas. In some places it is hard to get thru, except by following deer trails. At ~~the~~ end of the bay there are

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6 mi S, 5 mi W Tillamook, 400± ft., Tillamook Co., Oregon.
Crown Zellerbach land — a few White-crowns.

Netarts Bay Spit, sea level, Tillamook Co., Oregon.
Looking to spit across bay + marsh.

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June 18 Netarts Bay spit, sea level, Tillamook Co., Oregon
Long-billed Marsh Wrens, Redwings, along the spit are White-crowns, Savanna sparrow, both common, the latter more so, and a few Amer Goldfinch. Also saw Cormorants, Great Blue Heron, Crow, Killdeer, Western Gull and also a lighter-backed Gull, not identified, Cedar Waxwing. Also one pair of Violet-green Swallows. Toward the end of the spit (away from the park) there is a large fir(?) forest, trees not too big, but very dense, I could not get thru at the place I tried to enter. Here saw Mourning Dove and heard Winter Wren, which I also heard this morning. There were Orange-crowned Warblers singing on the spit, in rather unusual, I felt, habitat for them. There are deer here - saw one - and many trails and tracks. It was sunny and quite warm on the spit for much of the afternoon, but windy. The fog hung on the hills just across the bay, just a few hundred feet high, but there was blue sky over me.

June 19 Spent today in camp, skinning the birds I got yesterday. Got 16 done, have 3 to do tomorrow morning. It has been overcast + dark all day, not warm but still comfortable. Saw a chipmunk in camp.

June 19 4½ mi S, 4 mi W Tillamook, sea level, Tillamook Co., Oregon

Went to try to whistle up an owl, but had no luck. Amused myself for an hour or so trying to catch frogs in a chorus in the roadside ditch. Got 4 *Hyla*, 4 *Taricha*, and on the way back to camp got ~~4~~ 3 *Bufo* in the road.

June 20 What with skinning birds, taking care of herps, cleaning up, etc., didn't get away from this camp till 1 P.M. Did laundry + shopping in Astoria, then just missed the ferry. It was about dark around 9 PM (I am on DST all the time) when I got to Grays Harbor area. The Twin Harbors State Park was full — there is an exceptionally low tide, the best of the season for clammers — and everyone is here. Stayed overnight at Fuzzy Joe's Camping Area, a couple miles south of Westport. When I pulled in it was foggy, with occasional misting.

June 21 A strong wind all night has somewhat dispersed the fog, and there are patches of blue sky showing. Left to find a hunting area about 7 a.m., will go to the state park later today. Spent a couple hours just driving around the area, looking for birds and shooting areas. White-crowns are scarce, as is their habitat. Most of the land is in second-growth timber, and what has been

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June 21 Westport, Grays Harbor Co., Wash. area
recently logged is extremely heavy with brush.
There is some grass, but without brush.
Finally found an area at:
4 mi S Westport, sea level, Gray's Harbor Co. Wash.
where Mr. Roberts, who owns the land, gave
me permission to "catch" birds. This tract is
being laid out in lots, so won't be suitable
for collecting very long. It is adjacent to the
beach and to the road (13A). It is sand,
with a fair covering of grass, and occassional
Lupine (yellow). A slough runs thru it, and
has some willows bordering it. Got 6 birds
here in a short time. At this area saw
Western Meadowlark, Savannah Sparrow,
White-crowned Sparrow, Barn Swallow, Purple
Finch, Amer. Goldfinch. In other roaming
earlier, saw additionally, in these places:
2 mi S, 2 mi E Westport – Golden Crowned Kinglet,
Winter Wren, Song Sparrow, Orange-crowned
Warbler, Tree Swallow, Olive-backed thrush,
Western Flycatcher, and at
2 mi S, 3 mi E Westport – Oregon Junco, Robin,
Great Blue Heron, Alder Flycatcher, Killdeer,
Crow, Rufous Hummingbird, and Cowbird
Also have seen Chestnut-backed Chickadee,
Cedar Waxwing, gulls, and a Blue Grouse.
In the p.m., moved my camp to the –

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4 mi. S Westport, Grays Harbor Co., ~~Or.~~ Wash.

4 mi. S Westport, Grays Harbor Co., Wash.

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June 21 Twin Harbors State Park, Grays Harbor Co., Wash.
where the Kinglet, Wren, W.C. Sparrow, Olive-backed thrush + Crow all can be heard.
Spent most of the afternoon setting up camp and putting up my birds. Now can hear a Nighthawk.

June 22 The day started overcast, but soon cleared up. Hunted from 8-11 a.m., good luck the first 2 hours, poor the last. Got 8 birds. Put them up in the afternoon. There was a cool NW. breeze blowing most of today, as there was yesterday. Only new bird today is Flicker. Now, about 5:30 pm., it is overcast again. Did more exploring in the evening, merely going farther on the roads I'd been on. There is little good area that is shootable. Stopped at

2 mi S, 3 mi E Westport, sea level, Grays Harbor Co., Wash.
where I got one White-crowned Sparrow. A little ways east on the road there is a side road with a sign saying "State Land". I walked back (the road is blocked) about ½ mi. The area is cut and very brushy, but there is an old railroad bed, apparently, that gives access deep into it. Think I heard a Ruffed Grouse drumming. Shot a Nighthawk. Whistled for an owl here + in a small stand of redwoods, but must have been too early.

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June 23 Twin Harbors State Park, Grays Harbor Co., Wash.
4 mi S Westport, sea level, " " " "
Camped at first place - collecting at second. The day dawned cloudy, but it cleared + got sunny + hot about 9. Collected from 8-11, got 7 sparrows. Not much luck till sun came out. Skinned all afternoon, last night's + today's birds. New birds today: Bewick Wren, 1 pr. of Mourning Dove, + Yellowthroat. In the afternoon it clouded up, and about 6 began to rain. Looks like an all-night

June 24 job. ///// Apparently rained all night - when I woke up it was still dripping from the trees. Everything was wet, so I left. Drove on Rt. 101 up the coast of the Olympic Peninsula, arrived in Port Angeles just in time for the 2 o'clock ferry. Saw Murre + Glaucous-winged Gull on the crossing. Drove up Vancouver Island to Twin Firs Provincial Park, about a mile north of Ladysmith. Can hear Olive-backed thrush - the park is very nice, firs + maples, a stream nearby. The area does not look good for White-crowns, however. Tomorrow will look around, perhaps collect. Took a short walk in the evening, saw: Oregon Junco, Towhee, Robin, Flicker, White-crowned Sparrow. Altho the area is quite swampy, I heard no frogs.

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June 25 Ladysmith, Vancouver Island, B.C., + vicinity

Drove around this area from my camp 1 mi. N of town to several miles south, looking for places to shoot White-crowned Sparrows. The landscape is mostly forest. Most of the clear areas are on small farms, or just around houses, no adequate place to shoot. Areas that have been logged are very brushy, with many fallen logs and stumps and tops, almost impossible to get thru. My birds were abundant, but no place to shoot them. Found 2 places and got a total of 5 sparrows by noon. See catalog + species account. Left this camp + drove to Nanaimo about 4 p.m., drove on to Qualicum. Birds seen in Ladysmith area:

Alder Flycatcher	Belted Kingfisher
Amer. Goldfinch	Cliff Swallow
Song Sparrow	Barn Swallow
Pine Siskin	Savanna Sparrow
Violet-green Swallow	Olive-sided Flycatcher
Crow	Killdeer
Quail sp. (5 yng.)	Purple Finch
Solitary Vireo	Brewer Blackbird
Downy Woodpecker	Western Bluebird
Rufous-sided Towhee	House Wren
White-crowned Sparrow	Bewick Wren
Olive-backed thrush	Warbling Vireo

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June 25 Qualicum Falls Provincial Park, Vancouver Is., B.C.
The location of the dot for this park on the map is misleading. It is not on the coast, near Qualicum, but is on the Little Qualicum River, about 12 road mi. W of Parksville on Alberni Highway. It is a beautiful area. The hills are all evergreen-covered, and on the road to here one can see snow-capped mountains. The camp is in conifer forest. My site is in fir and incense cedar, trees 3 to 6 in. DBH, about 75 ft. tall, a few larger trees. This type forest extends on all sides. The only sounds are a stream, wind in the trees, an Olive-backed thrush, and my crackling campfire. Very few birds so far. Took a short walk about dark (10 p.m.), saw a Nighthawk, watched him diving and booming.

June 26 Woke up to cloudy skies and a shower, but it didn't last long. Left camp and drove to the E coast of the island, to Parksville and north toward Qualicum. This area is wooded much as described for the more southern coast. There are many motels, resorts, etc. between the road (rt. 19) and the coast. About the only openings are around houses, or logged areas which have very thick brush. French Creek is between Parksville and Qualicum. Collected in 2 places, only got 3 birds. (turn)

June 26 2½ mi N Parksville, Vancouver Island, B.C. — This is a field, mostly grass, with thistle and other weeds, about knee-high, and scattered cedars, right along the highway. It's perhaps 500 x 200 yds. Got 2 White-crowns and 1 garter snake: Birds seen here or nearby:

Winter Wren	Alder Flycatcher
Flicker	Song Sparrow
Calif. Quail	Robin
Killdeer	Cedar Waxwing
Olive Backed thrush	Chipping Sparrow
Goldfinch (Amer.)	Rufus sided Towhee
	Barn Swallow,

1½ mi N, ½ mi W French Creek, Vancouver Is., B.C.
Drove on here, about 2 mi farther on the road, N of the last locality. New birds here were:

Orange Crowned Warbler	Tolmie Warbler
Mourning Dove (1)	Lazuli Bunting (heard)
Raven	

Englishman Falls Provincial Park, Vancouver Is., B.C.
As I got about 3 mi. inland on return to camp, ran thru a series of showers. At camp, however, it had barely sprinkled. About 2 pm, it started to rain, and altho there has been some sun and one 5 min. break, it has rained constantly until now, 4:20 pm. I've stuffed all birds + taken care of all snakes. Birds seen or heard here in the park today: Robin, Steller Jay, Tolmie Warbler, Nuthatch (sp.) Band-tailed Pigeon, Chestnut-back Chickadee.

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June 26 Qualicum Falls Provincial Park, Vancouver Is., B.C.
Late in afternoon, after the rain, took a short drive and walk. Saw White-crowned Sparrow ½ mi. away, obtained one. Saw: Pileated Woodpecker, Sooty Grouse ♀ (1), Song Sparrow, Olive-sided Flycatcher, Winter Wren, Yellowthroat. These were not within the park, but about ½ mi E. In evening returned to same area, saw Audubon Warbler, Chipping Sparrow, and caught a Gerrhonotus.

June 27 11½ mi W Parksville, Vancouver Is., BC — This is the locality where I got the Zonotrichia and Gerrhonotus yesterday. Revisited the area this morning, got another White-crown, and a Thamnophis. When I awoke the sky was blue + the sun was shining. While collecting, a storm moved in from the west - when I got back to the car it was sprinkling, and at camp, ½ mi. away, raining quite hard. Now 10 a.m., still raining hard. Rained till noon. After lunch I took a drive across the island to the Alberni area, going as far south as possible to the edge of Port Alberni, and north almost to Great Central. Across the island is big and largely wooded, but the Alberni Valley has a lot of clearing and a fairly large population. Tried to stop a couple places on way back,

June 27 Qualicum Falls Provincial Park, Vanc. Is., B.C.
but everytime I stopped it began to rain.
After supper visited a place about 3 mi.
W of the park, but didn't collect.

June 28 Left this area about 10:30 a.m.
Kye Bay, Comox, Vancouver Island, B.C. – Arrived in Comox just about noon. In general touring around, followed the Kye Bay Road, clear to the Bay, which is down a hill perhaps 200 ft. elev. Returned to top of hill and heard White-crowns sing. Asked at a home close by about property & ownership. The area where birds were singing is Air Force, and there is an airstrip there. Wooded area at top of hill belongs to James
* Simon (American). He is a naturalist, very interested in birds. Talked to him at length, over an hour. He is a surveyor, a man about 45, and he tried to direct me to suitable collecting places. He knows Pearse & Laing in Comox, gave me directions to their places. He also directed me
* to the farm of people named Knight where I collected. This farm adjoins the Air Force land, and is across the road from Simon's. The Knight farm (ca. 70 acres) is mostly weedy field, some growing up to Aspen, used for pasture – very little cultivation. It is ideal White-crown habitat, but birds are scarce. Got 4

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June 28 Kye Bay, Comox, Vancouver Island, B.C.

sparrows and a garter snake. Birds seen in the area:

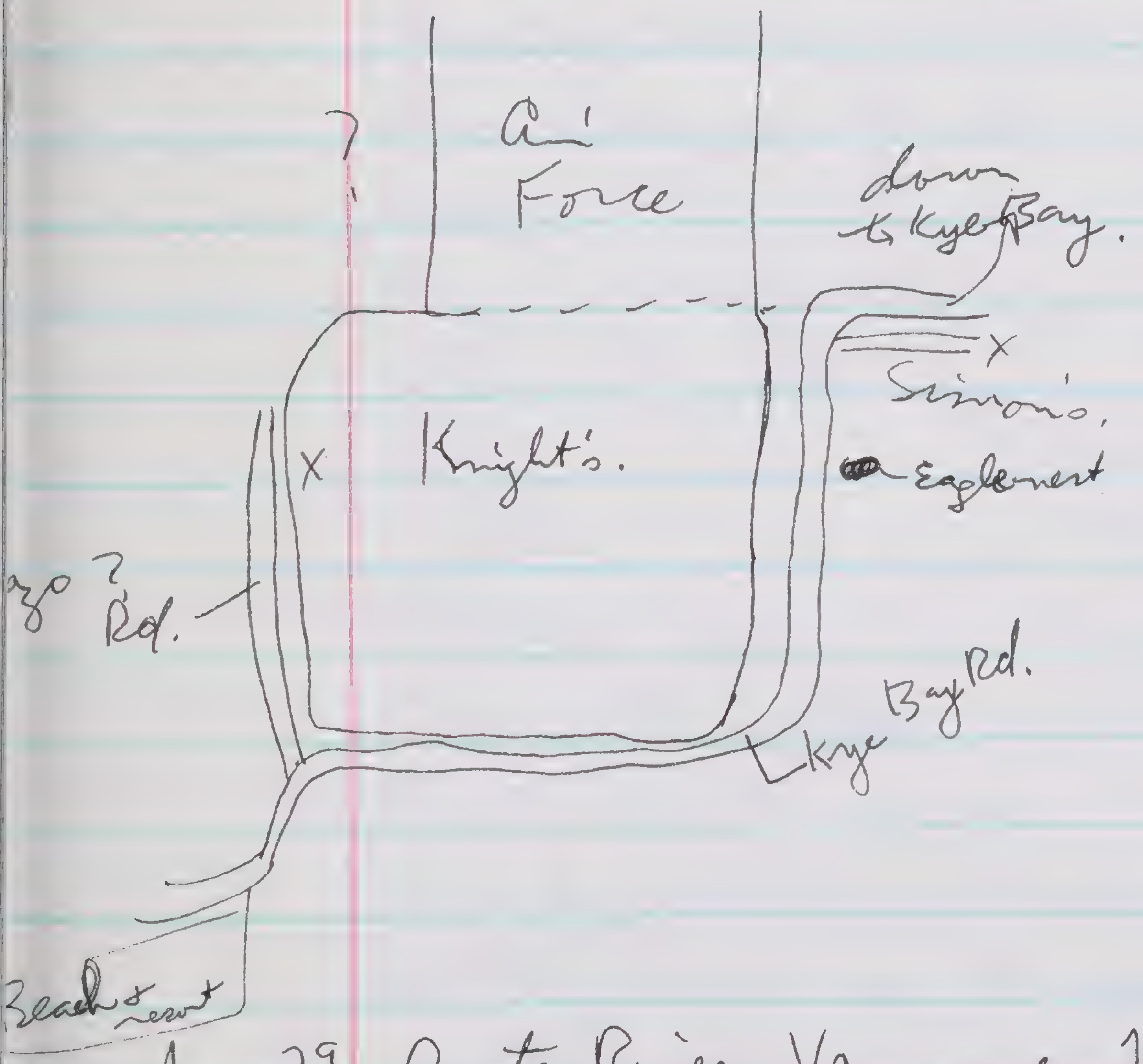
Towhee	Rufous-sided Towhee
Brewer Blackbird	Ring Necked Pheasant
Amer. Goldfinch	Calif. Quail (chicks)
Cliff Swallow	Barn Swallow
Killdeer	Crow
Nighthawk (nest)	Raven
Yellowthroat	Olive-backed thrush
White-crowned Sparrow	Redwing
Robin	Mourning Dove
W. Wood Pewee	Violet-green Swallow
Pine Siskin	Hairy Woodpecker

There is an active Bald Eagle nest on Simon's property, but I did not see birds.

* Drove into Comox, went to visit Theed Pearse, who knows both Simon + Mrs. Knight. Talked with him for about an hour, had tea + cookies, + he gave me a bag of cookies. Met his wife. They are both old, over 80, but still

* active. From here went to visit H. M. Laing, who lives near Pearse's, had supper with him. From his window observed Osprey, Great Blue Heron, and Yellow Warbler. Violet green Swallows nest in a box on his porch. He is in his early 70's, has a collection of about 2000-2500 birds. Picked out 10 breeding White-crowns to borrow. He is strictly the old-time outdoorsman

June 28 <u>Kye Bay, Comox, Vancouver Island, B.C.</u>
type, lives alone. He has travelled + collected a lot, knows a lot about birds + mammals, and is one of the last of the "old school" of ornithologists. He is currently working on a biography of ~~the~~ Allan Brooks, going over his old diaries, + has just completed some work on the Pigeon Hawk. Left him about 8 p.m. drove to Miracle Beach Prov. Park, made camp about 9-9:30 p.m., after which I made these notes.



June 29 <u>Oyster River, Vancouver Island, B.C.</u> – This river crosses the highway about a mile or two north of Miracle Beach. Just across the bridge, on the west, there is a large cleared area which has been laid out in lots, but not sold. The area,

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June 29 Oyster River, Vancouver Island, B.C.

probably a hundred acres, is mainly grass, quite tall, with a few patches of small trees, a scattering of stumps and logs. On the surface, it appears to be good White-crown habitat, but the birds are scarce. I got only 4, saw only 3 pr., and I covered a good bit of the area. It seems that Chipping sparrows occupy the Zonotrichia niche (habitat, at least), here. Took 1 chippy, 2 garter snakes, and 6 Aneides ferreus here. Western Meadowlarks abound, the first seen, in abundance, on the island. Also I saw or heard:

	Yellow Warbler
Western Flycatcher	Violet-green Swallow
Amer. Goldfinch	Barn Swallow
Alder Flycatcher	Ring-necked Pheasant,
Robin	Band-tailed Pigeon
Flicker	Olive-backed Thrush
Solitary Vireo	Orange-crowned Warbler.

Saw also 2 deer, a doe and a spike-buck, feeding in the grass.

Macauley Rd., 14 mi. N Courtenay, Vancouver Id., B.C.

Met Mr. Pearse at the junction of this road and the highway, a few 10th's of a mile S of the park entrance, at 10:30. Drove about 5 miles, and the country opened up into some good farms. A Mr. Johnson (spel.?) who owns a farm gave permission to shoot here. Took 3 White-crowns,

Journal

June 29 Macaulay Rd, 14 mi N Courtenay, Vancouver Isl, B.C.

which seemed quite abundant throughout this territory. Continued on the road till it was no longer gov't. road, then on + on. This is one of Mr. Pearse's favorite areas. Back in here, there is a large swamp. Here Pearse often finds Eastern Kingbird, Wood Duck, and Bittern, but we saw none of these. Several Beaver houses here. Birds seen:

Redwing	Solitary Vireo
Yellow Warbler	Red Eyed Vireo
Orange-crowned Warbler	Belted Kingfisher
Yellowthroat	Tree Swallow
Robin	Violet-green Swallow
Olive-Backed thrush	Alder Flycatcher
Flicker	Black Swift
Downy Woodpecker	Nighthawk
Cedar Waxwing	Turkey Vulture
White-crowned Sparrow	Audubon Warbler

Continued on the road to the farm of the Kreutziger's. They have a son at U.C., Berkeley. There is a small lake on the farm, but we saw nothing on it. The road soon becomes a public road again, + joins the highway as Endall Rd., several miles S of Macaulay Rd. Returned to camp, skinned till dark, pickled salamanders, wrote snake labels, + then these notes.

Banks 1959

Journal

Heard a Screech Owl sometime in the night.

June 30 Finished the skins I had to do and left this camp at noon. Drove to Nanaimo + caught the ferry to Vancouver. On the way saw 2 Bald Eagles flying north, just south of Union Bay. On the ferry, saw Glaucous-Winged Gulls. Got lost in Vancouver, but drove over Rt's. 7+1 to between Hope and Princeton, where I spent the night at a picnic site next to a

July 1 campground. ///// Up early, drove to Osoyoos and on into Washington. There is a fairly abrupt change in vegetation type a few miles W of Princeton. Going east, one goes down a long hill, and immediately the Dog Fir decreases, Pines come in, Sage is seen, and the forests thin noticeably. The Okanagan Valley is very reminiscent of Great Basin. It is a big fruit district, has a

Eastern Kingbird good climate. Today it was over 80 as I drove south. Continued to Okanagan, Wash., across rt. 16 to Winthrop, to Mazama, where I talked to the Ranger (Bob Metlan) at great length. He is somewhat interested in birds, knows a few. He reports Ptarmigan and Leucosticte on Harts Pass. The road to the pass is being worked on, and now extends to the top of Slate Peak, where they are going to build a radar station. The road to the pass is not good, but I made it - a long haul.

Banks
1959

Journal

July 1 Harts Pass, 6197 ft., Okanogan Co., Wash.
The campground is (about under) 2 ft. of snow. Found a small clear area where I could set up camp, + am in fine shape, I hope. It is clouding up now, may rain. Saw deer on the way up, there is a Chipmunk at my camp. Not much bird life seen yet - Canada Jay, and a few sounds I haven't identified yet. There is a strong breeze from the west. 7:45 pm.
After writing the above, took a walk toward Slate Peak. Saw a Chickaree in camp. Saw a Robin, found its nest about 12 ft. up in a small fir. Several times heard Savannah Sparrows sing, but got only glimpses. Collected a fox sparrow. Chipping Sparrow + Hermit Thrush also seen + heard. I got high enough to get into the clouds + it was misting, so went back to camp, where it misted till I went to bed. Got to 6500 or 6800 ft., I guess.

July 2 Very windy + cold, cloudy this morning, but shows signs of clearing. A few minutes after I got up, a pr. of Canada Jays and a Ruby-cr. Kinglet came thru camp, the kinglet with crest erect + scolding the silent jays. Oregon Juncos here in camp also. My hands are so cold I can hardly write. Collected from about 9 to near noon. Walked up the road toward Slate Peak, then went off road to the

Banks
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Journal

July 2 Harts Pass, 6205±ft., Okanogan Co., Wash.

right, into a very wet meadow, where there were still fairly large patches of snow. There was much running water, from melt, but a few more sloping areas were dry, indicating that when the snow melts it will be much drier. The elevation of this little valley is about 200 ft. higher than the pass, or about 6400, tho I have used the pass as my locality - it is perhaps ½ mi. N.E. There is no brush, except for the lower, bent-down boughs of the Firs and some younger firs. The grass and herbs, ~~some~~ flowering, are only 3-4 inches high. Collected the same area in the afternoon, but walked up to the top of Slate Peak later in the afternoon. In the morning it was dark + cloudy, with frequent drizzles, and it snowed a little at noon. Shortly after noon the sun came out and it got quite warm, but also got very windy. As I walked up the mt. it drizzled more, + snowed a little more. All in all it was a bad day. Following birds noted today.

Robin	Hermit Thrush
White-crowned Sparrow	Mountain Chickadee
Savannah Sparrow	Oregon Junco
Canada Jay	Mountain Bluebird
Ruby-crowned Kinglet	Leucosticte

Harts Pass, 6200± ft., Okanagan Co., Wash.
View of wet-meadow from road to Slate Peak.
Ranger cabin is down the road to the right.

View from Slate Peak, Okanagan Co., Wash.

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Journal

July 2 Harts Pass, 6300±ft., Okanogan Co., Wash.
Saw a Clark Nutcracker near the top of Slate Peak also Pipit. Also saw a Hoary Marmot in a large snowdrift - it called my attention to it by whistling. The evening was quite cold and windy. Don Jones, the guard at this station, arrived at noon. Very cold & windy at night, so I slept inside the guard cabin.

July 3 Woke up late - the cloud cover was only a few hundred feet above the cabin. It snowed off & on all morning, but about 10 a.m. it cleared up some, and I started out, Before that it was too bad. Temp. was 36°F. at 8 a.m. A Dusky Grouse flushed from a tree as I left the road to get to the same meadow that I worked yesterday. It was very windy & rather cold all morning, but I collected 3 birds, got back to camp at 1 p.m. The afternoon was fairly clear, but still very windy, and I could not get any birds. Did not even see or hear many. Drove up to Slate Peak with Don Jones late in the afternoon, saw a couple of Hoary Marmots (2), one the same as yesterday. Very cold but clear at night. In camp just before dark saw a Robin chasing a Steller Jay, the first of the latter species observed here.

July 4 Harts Pass, Okanogan Co., Wash. 6200± ft. — Clear & bright, a few clouds in W & NW, and very little wind this morning. A really beautiful day. Packed up my gear and left about 9:30 a.m. Drove to just below Bend, Oregon, by midnight or so. In the valley as soon as I had descended from Harts Pass, I saw Lewis Woodpecker and Magpie, both of which I saw frequently on south, the woodpecker very common. Stopped at Chelan, Chelan Co., Wash., for ice. The ice plant here is run by Joseph Pisani, who also does taxidermy work. He used to work for Calif. Academy at San Francisco. He gave me a wildcat which had been killed on the road the previous night. I gutted it through its back.

July 5 Drove from S of Bend, Oregon, to Berkeley. Stopped at Crater Lake, which was clouded. Just south of there saw Wilson Snipe sitting on a post. At Upper Klamath Lake, Oregon, north of Klamath Falls, saw California Gull and White Pelican, plus ducks which I did not stop to identify. After 12 hr. drive, got to Berkeley about 7 p.m.

Banks
1954

Journal

July 8 Kaiser Pass area, Fresno Co., Calif. –
Left Berkeley at 8:30 am. Drove Rt. 99 to Madera, then cut east to hit Rt. 168 to this area. Reached the summit of the pass about 3 p.m. The last 10 miles or so of this road, past Huntington Lake, ~~are~~ is very narrow and steep. The area impresses me as very hot and dry, with a thin pine forest which does not extend onto some hillsides because of the rock. Although the pass is 9175 ft. (acc. to topo + forest service maps) it is hot! No snow – people say there was very little this winter. Drove on past the pass to
Jackass Meadow, 7300 ± ft., Fresno Co., Calif. –
which is by Florence Lake, the end of the road. This side of the pass is much rockier, with huge granite outcrops and less trees. The road is passable but not topo. Shot 4 Sceloporus by the meadow. Got the following bird list here: Western Wood PeWee
Mountain Chickadee Oregon Junco
Violet Green Swallow Robin
Steller Jay Redwing
Cowbird (1) Brewer Blackbird
W. Meadowlark (young?) Song Sparrow
Also saw Ground squirrels, (C. beecheyi?), Chipmunk, and some young rabbits.
Drove back to the pass – it is an hour's drive.

Journal

July 8 .8 mi S Kaiser Pass, 8800± ft., Fresno Co., Calif. - This is the location of my camp. It is a nice area, near a stream and small meadow, with a rocky, grassy slope across the road. It is 1.1 road miles from the pass, between the pass and Badger Flat. Got here just as the sun went behind the hill. The camp area is mostly open, but there are 5 large trees (3 pine, 2 redwood) which give shelter most of the day.

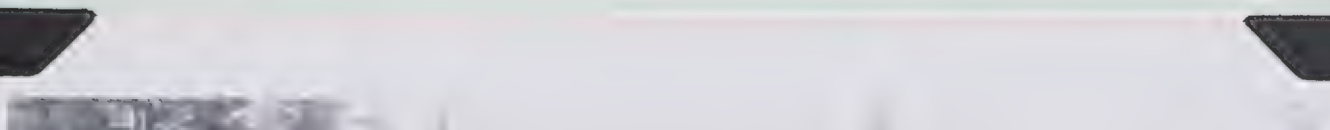
July 9 Kaiser Pass Meadow, 9100± ft., Fresno Co., Calif. - Got there at 6:30 to collect. The meadow lies just beyond the pass. It is quite extensive, with pine bordering and intruding. The meadow is very wet - there is 2 or 3 inches of water in places and is grass and flowers up to 4" high. White-crowns are in the pines all around. There are a few small streams running thru the meadow, with frogs in the deeper pools. Saw the following birds:

Cassin's Finch	Mountain Chickadee
White-Breasted Nuthatch	Hermit Thrush
Oregon Junco	Robin
White-Crowned Sparrow	Mt. Bluebird
Chipping Sparrow	Brown Creeper
W. Wood Pee Wee	Brewer Blackbird
Flicker (nest)	Ruby-crowned Kinglet
Audubon Warbler	Western Tanager
House Wren	Solitary Vireo (see next day)
	Steller Jay.

Banks 1959

Journal

Kaiser Pass Meadow, 9100±ft., Fresno Co., Calif.



Kaiser Pass Meadow, 9100±ft., Fresno Co., Calif.

July 9 Kaiser Pass Meadow, 9100±ft., Fresno Co., Calif. — Collected 11 White-crowns and a Pine Grosbeak. also saw a mouse (briefly), Chickaree, and heard + saw workings of Ground squirrels. Back to camp, skinned till dark.

July 10. Arrived here about 7. Poorer hunting today. Got 7 White-crowns, a Ground Squirrel (sp.?) and a Cassin Finch. added birds: Red-breasted Nuthatch (?) and Williamson Sapsucker. There are Hummingbirds but just whiz by. Saw mice moving thru grass a couple times. appear to be Microtus.

.8 mi. S Kaiser Pass, 8500±ft., Fresno Co., Calif. — Skinned until about 5:30, then wrote notes. Flies are very bad here in camp, few mosquitoes. Mosquitoes at the meadow are nearly unbearable - never seen or been bitten by so many. No birds here in camp that aren't above, but I haven't had much chance to look around. There is a large nest in a tree close by, but have not seen anything around it. Went walking about dusk to see if I could get anything. Saw some bats, but couldn't get one.

July 11 Up at 5 a.m., started out at 6. Only got 3 White-crowns. Wandered about a good deal, on the E side of the road, up to perhaps 9000 ft. Saw deer. These hills are honeycombed with the

July 11 .8 mi S Kaiser Pass, 8800± ft., Fresno Co., Calif.
holes and burrows of small mammals. No sign of reptiles of any sort. Back to camp at 10. Put up my birds, had lunch, broke camp, and headed home. New birds today:

Tolmie Warbler — Fox Sparrow
Pileolated Warbler — Clark Nutcracker
Mt. Quail (young 1 or 2 days old)
Green-tailed Towhee — Olive-sided Flycatcher.

Found the nest of a Western Tanager. Wednesday, near the summit, saw 2 Band-tailed Pigeon. Hummingbirds are thick here, lots of chasing. Could not shoot nor identify them. I believe that the Solitary Vireo reported earlier was an error. Both Cassin Finch + Western Tanager have been making notes very similar to the Vireo song. Drove to the summit to take some pictures. Saw Golden mantled Ground Squirrel at top. As I left, it was thundering, and clouding up. It is just 250 mi. from the summit to Berkeley (MVZ)

July 14-16 MVZ — Spent parts of these three days putting up the birds brought back from Harts Pass on ice. They are not in very good shape, most being soft + beginning to slip on the belly. All these birds are fat. Many or all seem a little emaciated from drying, esp. on feet.

Journal

Oct. 2 Sagehen Creek Exp. Sta., 6400±ft., 3 mi NW Hobart Mills, Nevada Co., Calif.
We ~~are~~ are here on Mammalogy (Zool. 135) field trip. Dr. Benson, 4 students, C. Thaeler, W. Maher are here. Students set traps in various places. One Oregon Junco was caught in a museum special, put up tonight. I shot a chipmunk in p.m., near rock slide. Radovsky put
Oct. 3 it up. Tried a little hunting today, saw chickadees, G.M. Ground Squirrel, Chipmunks; shot 1 Chipmunk. John Hopkirk got a Junco and a Lincoln Sparrow in traps; I put them up. In late morning, went gopher trapping with Charlie Thaeler. at
1.5 mi E Calpine, 4925±ft., Sierra Co., Calif. I shot a Gambel Sparrow. Moved to
3.6 mi N, 1.8 mi E Calpine, 4950±ft., Plumas Co., Calif.
one of the gopher trapping localities. Here there was sage, grass, and pine groves. Junco, White-crowned Sparrow were feeding in grass + sage, shot 1 Field Sparrow; Mountain Bluebirds also here. In the pines there were White-headed Woodpecker (I shot 1, Thaeler put it up) and White-breasted Nuthatch. In the Sierra Valley here we saw Marsh Hawk, Black-billed Magpie, Western Meadowlark, and Brewer Blackbird,
Oct. 4 Today took a Williamson's Sapsucker in a pine tree. Had 2 gophers - see Thaeler's notes.
Left the station about 2 p.m. Ken Evans got a Imm. White-crowned Sparrow in a trap.

Journal

Nov. 14-15 Tomales Point, 0-250 ft., Marin Co., Calif. - Here on a Mammalogy (Zool. 135) field trip with Dr. S.B. Benson, students Ken Evans, Frank Radovsky, Bob Bankhe, John Hopkirk, + Lorrain Barnes. John Barnes also along. Met at Benson's place near Inverness, checked traps he had set for Mountain Beaver the night before, on the road to Pt. Reyes. We arrived at the Lower Pierce Ranch, near the end of Tomales Point, about noon, and made camp in the old milkhouse. The ranch is unoccupied. The point is grazed, and is a mixture of grass and brush, very open at the present, and very low grass, because of the lack of rain. The west slope of the point is very steep, the east more gradual with wider, longer gullies, and more brush. In the afternoon, we hiked around the point, looking at animal sign and habitat. At low tide the beach (eastside) is narrow + rocky, except at the openings of the gullies from the ridge, where there is a narrow sand beach. At high tide it is difficult to get along the shore. In late p.m., students set traps. Benson set 5 steel traps. Caught, in the evening, 1 fox and 2 coons. Went night hunting. Benson called, with predator call, several foxes + coons, but it was a bright night + they didn't come very close. ~~Sat~~ Sun. morning we

Banks
1959

Journal

Nov 14-15. Tomales Point, 0-250 ft., Marin Co., Calif.
picked up traps, broke camp about 11 a.m. Caught were: Peromyscus maniculatus, Sorex trowbridgei, Microtus californicus, Reithrodontomys.
On the afternoon hike, in Tomales Bay, we saw many Surf Scoters, a Loon, and ♀ Black Scoter. On the west side of the point we saw Black Turnstone. On the uplands there was a variety of song birds. Audubon Warblers were common wherever there were trees or high brush, some even foraging at the water's edge. Song Sparrows were seen in thick brush. Wren-tits heard occasionally. Black Phoebes were abundant. Saw one Ruby-crowned Kinglet. White-crowned Sparrows were very common, in large flocks, and Golden-crowned Sparrows were fairly common. Scrub Jays were present, not abundant. On Bird Rock, we saw Cormorants, Brown Pelicans in large numbers, and gulls - Western Gull, + others. In late afternoon, on the east side of the point, saw 1 each Willet, + Black-bellied Plover, and a small flock (15±) of Sanderlings + Black Turnstones. Sunday a.m., there were Black + Surf Scoters, ♂ + ♀, and 2 ♀ Mergansers. On the west side, Evans + I saw 3 Harlequin Ducks, and a large flock (200±) of Western Grebes. Also saw a few Horned Grebes. Both days, hawks,

Banks
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Journal

Nov. 14-15. Tomales Point, 0-250 ft., Marin Co., Calif.
esp. Red-tailed Hawks, were common on the peninsula, and Sparrow Hawks were seen several times along the road. Sun. morning, shot one ♂ Plumaged Anna hummingbird at the ranch. Other birds seen were: Calif. Quail, Amer. Pipit (on return trip), Killdeer, Brewer Blackbirds

Banks, R. C.

1959

Species Accounts

Amphibians

Reptiles

Birds

Mammals

Amphibians

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Bufo boreas

June 19 4½ mi S, 4 mi W Tillamook, sea level, Tillamook Co., Oregon
Found 3 of these toads crossing the road. this locality is not exact; they were, however, all on the road between here and the entrance to Cape Lookout State Park.

Banks
1959

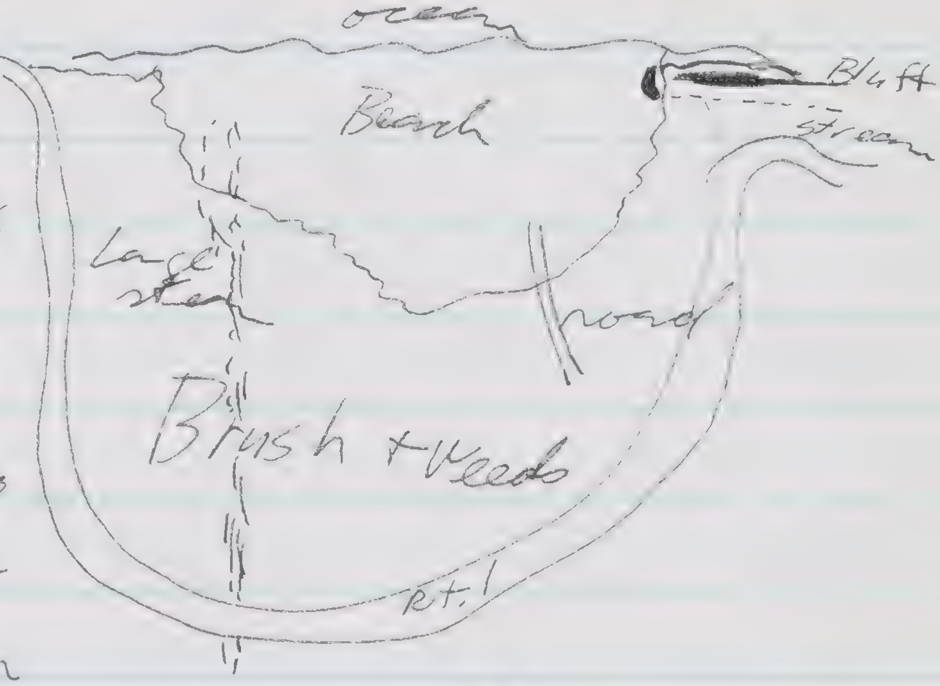
Hyla regilla

June 19 4½ mi S, 4 mi W Tillamook, sea level, Tillamook Co., Oregon

Caught 4 of these beasts, all different looking, in the roadside ditches. There were many many calling, but even with the flashlight I couldn't spot them. There was one - two inches of water in the ditch. Tadpoles were abundant, and there were a few newts.

Banta
1959

May 9 2 mi S Westport, sea level, Mendocino Co., Calif. — Rt. #1 cuts inland here in a big loop where a stream has cut a good sized gorge. There is a little dirt fenced-off road following the stream course to a small beach. Besides this fairly large stream a small one meets the sea here too. See Map. Where the small stream stops there is about a 15 x 3 pond of brackish water — I tasted it. Here I gathered 8 or so small frogs. At the mouth of the larger



stream were many more, small and a few large frogs, which I didn't catch. This water was flowing swiftly, but I didn't taste it — I assume it was fresh. Upstream here, about 10 ft. elev., I found a bunch of small tadpoles and egg masses — most of the masses were just hatching and breaking up. Got parts of two and one fairly complete earlier one, with larvae. The egg masses were attached to sides of rocks or large sticks in the algae-filled water — water only about 4-6 inches deep. The frogs at the little stream were clustered around about 5 ft² of sedge, + some would partly dig into the sand.

Rana boylei

May 24 Prosser Creek, 5600 ft., 1 mi. S, 2 mi. E Hobart Mills, Nevada Co., Calif.
Found a Yellow-legged Frog in this stream, and saw several others in water filled depressions near the stream, filled with melt- or flood water.

Banks
1959

Aneides ferreus

June 28 Oyster River, Vancouver Island, B.C.

Turned over a charred log in this grassy field, and it partly fell apart, exposing a salamander. Tore the log apart, found 5 more. Altho the field + log were dry, + it was charred, its interior was quite moist + rotting. There were also many Isopods in the log. The salamanders were deep in the wood, not just under the bark. They put out a slime all over them. I tore apart other logs nearby, but they seemed less rotten and less moist, and I found no other salamanders. 647-652.

Banks
14159

Taricha granulosa

June 18. 6 mi. S, 5 mi W Tillamook, 400 ± ft., Tillamook Co., Ore.

In a pool of standing water - not on a stream - about 15 × 12 × 1 ft., got several of these newts. A few escaped. The bottom was exceedingly muddy, very soft, so that when I tried to wade, I sank in over my ankles. I found that by using a stick I could make them move to the edge of the pool, where I could grab them. Sometimes I could even catch them amidships and drag them to me, or even flip them out of the water. I saw no eggs, but one pair was in amplexus when caught. There is no vegetation in the pond - it is surrounded by mud - but there a few dead roots sticking into the pool. The water is cool, but not really cold. There are a few "water spiders" or "striders" on the pool. Deer tracks are all around. # RCB 561-570.

June 19 4½ mi S, 4 mi W Tillamook, sea level, Tillamook Co., Ore.

Caught 4 newts in the water of the roadside ditches. RCB 588-591.

Reptiles

Banks 1959

Gerrhonotus

June 14 1 mi S Shore Acres, 500±ft., Coos Co., Oregon
Caught a lizard at the side of the quarry. Back at camp, it had escaped from my snake
June 17 bag and creel. //// Found a lizard in the trunk of my car – same size as the last. I assume it is the same one, and have treated it as such. At any rate, I am only 2 miles away from that collecting spot.
Sunset Bay State Park, sea level, Coos Co., Ore.
Caught an alligator lizard in the men's shower about 2:30 p.m. # 557.
June 26 11½ mi. W Parksville, Vancouver Is., B.C.
In a dump area here, ½ mi E of the Indian Park, on the N side of the Alberni Highway, turned over some trash, saw + captured one alligator lizard. It is 633.

Thamnophis

May 1 2.2 mi NW Bolinas, 300±ft., Marin Co., Calif. - Caught one small garter snake near a stream here. A short time later (about 4 p.m.) saw another near the road, but it got away. It was quite large. Caught another fair sized one in same place a few minutes later. In about an hour, found one crossing the road about ½ mile nearer Bolinas (this is Mesa Rd, or County Rd.) in a low wet area. These are RCB 417, 418, 419. The intermediate sized one of the 3 is the one from the wet, lower area.

May 9 2 mi S Westport, sea level, Mendocino Co., Calif. Picked up a snake - real vicious - on the road here.

2 mi N mouth of Ten Mile River, sea level, Mendocino Co. Cal. Another, D.O.R. In formalin as RCB 422.

Mouth, Ten Mile River, sea level, Mendocino Co., Calif. Got two along the road leading to the Foster home.

June 9 3.1 mi N, 1 mi W Fort Dick, sea level, Del Norte Co., Calif. - this point, measured from the crossroad at Ft. Dick, marks a bend in a now unused road on the Jepson Ranch. Right at this corner there is a large concentration of garter snakes. They are big, very fast - some jumping from a small bank to seek cover in the brush. The area is grassy, bordered one way by pasture, the other

Banks
1959

Thamnophis

June 9 3.1 mi N, 1 mi. W Fort Dick, sea level, Del Norte Co., Calif.
ways by riparian woods. I got six this afternoon, RCB 479-484. Some have 7 upper labials, some 8. All are very buffy or orangish around the neck. Most of these are, I think,
June 10 gravid ♀♀. //// At 5 p.m. today took 3 more snakes from the same area. The sun hits this spot nearly all day. RCB 496-498.
June 12 As I was approaching this spot about 5 today, there were 2 cats ~~up~~ there, and I could find no snakes. A ways west, however, in brushy weedy pasture, I found one garter snake under some pieces of bark. This is RCB 518. This is small, seems different from the others.
June 13 Got one snake in the brushy land not too far from ~~#~~ 518, (# 520) and three more in the first place at the bend of the road. These are RCB 521-523.
June 16 1 mi S Shore Acres, 500± ft., Coos Co., Oregon - There is a small seep running over the side of the quarry here. As I was going along looking for frogs, saw a very small garter snake in the grass. It is now RCB 553. Have seen a few other garter snakes in the general area, but haven't been able to obtain them.
June 18 Netarts Bay spit, sea level, Tillamook Co., Oregon - Caught one of 2 snakes seen, RCB 587. This seems to be a different species, its stripes being orange.

June 25 4 mi S Ladysmith, Vancouver Island, B.C.
Got one snake in a cut-burned area here. Saw one other disappear. Looks like good snake country, but haven't seen many.

June 26 2½ mi N Parksville, Vancouver Island, B.C.
#630 was obtained in a field of weeds, grass, & thistles, little high brush and few logs. It flattened its head and neck and struck at me fiercely, opened its mouth widely

June 27 11½ mi. W Parksville, Vancouver Island, B.C. — Saw a garter snake last night, caught one (635) this morning, in bracken, in a built-up area in a swampy place. Bracken is the main plant, with grass & a shrub (?) growing in the water nearby. This snake has a light belly, whereas those obtained +day before yesterday are dark below.

June 28 Kye Bay, Comox, Vancouver Island, B.C. — Caught another of the lighter snakes in this pasture type area, about 150±ft. elev. (a guess). It was perfectly quiet as I walked over it, and I nearly missed it. It did not move until I turned and went back for it. It is 641.

June 29 Oyster River, Vancouver Island, B.C. — Caught 2 snakes in grassy field on N side of river, ½ mi. from highway. 646 is big & black, 653 is small & light, very checkered. Saw but missed 2 others.

Birds

Banks
1959.

Calif. Quail

May 1 2.2 mi NW Bolinas, 300± ft., Marin Co., Calif.
Flushed a covey of about 30 quail in a draw. It seems late for coveys. Also, at different places, saw paired birds.

May 10 Mouth, Ten Mile River, sea level, Mendocino Co., Calif.
A good number of these birds here. Most of them are in pairs, but a couple of times saw as many as 6 adults together.

June 28 Kye Bay, Comox, Vancouver Island, B.C. –
Have seen these birds in good numbers in cleared areas over the east side of the island. Today saw chicks, barely dry, very small.

Banks
1959

Horned Owl – Bubo virginianus

June 9 3.1 mi N, 1 mi W Fort Dick, sea level, Del Norte Co., Calif.
As I arrived here at 2 p.m. heard a 2-note call of this owl:— hoo-hooooo. Later in p.m. heard it again, several times on each occassion. During the afternoon, in the riparian-redwood woods, many times heard a "shree" sound, thought it was a Red-tailed Hawk somewhere. I noticed the small birds, esp. Russet Backed thrushes, several times set up a fuss with alarm notes. About dusk heard the sounds again + investigated. There were 2 large but mostly downy young owls which I assume are this species. They are capable of some flight, as one flew from one branch to another. I did not see adults. After dark they apparently moved, as I can hear the screeches in another direction now.

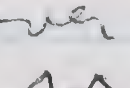
Banks
1959

Chordeiles minor — Nighthawk

3.1 mi. N, 1 mi. W Fort Dick, Del Norte Co., Calif. sea level

June 12. My first evening in this camp, June 9, I heard nighthawks calling. Heard them several other times, and tonight finally saw them. There were at least 2, perhaps 4 — I couldn't keep track of them. They were feeding quite high over the weedy & brushy pastures & riparian woods, as well as over the river. I got one shot, and missed. Now, as I write these notes, I can hear them flying overhead, giving their characteristic "peenk" note.

June 13 Brookings, Curry Co., Oregon. — Just about noon, as I stopped in this town, heard and saw nighthawks flying over the town.

June 22 2 mi S, 3 mi E Westport, sea level, Grays Harbor Co., Wash.
Walking along an old railroad bed leading into a cut, very brushy area, I heard 1 or 2 of these birds. Saw and heard one dive & "boom." From a height of perhaps 100 ft., it held its wings back & up and came down at about a 45 degree angle — at the bottom it apparently spread its wings and the air rushing thru caused the boom, actually a "whoom" — very similar to an Anna Hummingbird, only more. It dove straight at me twice, pulling out of the dive about 10 ft over my head — straight on view looked like: , I shot it as it dove (RCB 614.) toward me, blowing off a good part of its left wing.

Banks
1959

Chordeiles minor

June 28 Kye Bay, Comox, Vancouver Island, B.C.

A bird flushed from the ground ahead of me with a very peculiar flight. On a slightly raised area without vegetation there was a little cleared area containing one egg, which was warm. There was a part of a broken shell a few inches away. The egg was next to a rock about 1½ x the size of the egg. Can hear another bird flying & "peent"-ing, and the one that flushed just flew past me and landed on a fence post 25 yds. away.

Banks
1959

Chaetura vauxi

May 10 Mouth, Ten Mile River, sea level, Mendocino Co., Calif. - Saw these birds here, and as far north as Westport, yesterday and today. Never saw more than 2 at a time. This morning shot a bird ~~for~~ swooping low over a sometimes-pastured field - it, as were many of the others I saw, was flying more or less in association with Swallows (e.g., Barn). As I recall, the swifts were all silent - differing from the Chimney Swift in this respect. The bird I shot was a ♂, (RCB 463) with nearly round testes measuring 4 mm. There was no well developed cloacal protuberance. The ventral surface was largely bare, but while fairly thick-skinned, did not seem to be vascular or edematous. There was a large single-layered area in the back and roof of the skull. The ~~femurs~~ tibiotarsi, at the point of my breaking while skinning, were soft + pliable - couldn't break them, but cut them instead. The claws were bent back on the toes (reflexed), apparently naturally, not just a result of death. ~~?~~ toe-claw. There ~~is~~ are a couple of old dead hollow trees here, about ½ mi. from the shore (coast) where a small stream enters the north side of the broad river valley. Saw swifts and tree swallows there occasionally, and suspect they may find this a suitable nesting site.

Chaetura vauxi

May 24 Prosser Cr., 5600 ft., 2 mi. E 1 mi. S Hobart Mills, Nevada Co., Calif.
Saw two birds near Prosser Creek for just a few minutes, in a general area of sage and pine.

June 8 Coyote Peak, 3000 ft., Humboldt Co., Calif. - In the middle of the afternoon, saw 2 of these birds foraging over the bald area here.

June 11 3.1 mi. N, 1 mi. W Fort Dick, sea level, Del Norte Co., Calif.
this morning saw one bird flying over the pasture.

Banks
1959

Stelgidopteryx

May 10 mouth, Ten Mile Creek, sea level, Mendocino Co. Calif.

There are several of these birds here, feeding with Cliff + Barn Swallows, and esp. flying around a bluff on the county road going into the Foster place. Cannot tell if they are nesting — they do not enter holes in the cliff, but fly by here much more often than the other species. The county road crew, however, is eating away the cliff, so the habitat may be ruined.

Banks
1959

Barn Swallow
Hirundo rustica

June 18 6 mi. S, 5 mi W Tillamook, 400± ft., Tillamook Co., Oregon

Here, on Crown Zellerbach property, there is parked a very old moving van - has obviously been here for years. The back is open. Inside is a Barn Swallow nest, which has 4 eggs.

Banks
1959

Perisoreus canadensis

July 2 - Harts Pass, 6200±ft., Okanagan Co., Wash. - Saw a pair of these birds when I arrived here last evening about 6 p.m. & this morning I saw them in my camp, followed closely by a Ruby-crowned Kinglet, as they hopped silently from tree to tree, the kinglet, crest patch erect, followed giving a "– – – –", peter, peter, peet, peet" constantly. Later, a single bird came into camp, followed by the kinglet, and I collected it as 660. A few minutes later the other bird came into camp, with the kinglet, gave notes in perfect imitation of an Olive-sided flycatcher, then some
? typical Jay notes, quite obviously looking for its mate. I couldn't get a shot. It flew away, going only a tree or two at a time, with the kinglet following a few feet behind. The bird collected was molting heavily, as indicated by its rectrices (one tail feather fell out during preparation). The body was molting, seen from inside, but not the head. The bird was a ♂, with testes only 3 mm. long. The skull was completely ossified.
both lateral rectrices lost.

Banks
1959

Black-capped Chickadee *Parus atricapillus*

3.1 mi. N, 1 mi. W Fort Dick, sea level, Del Norte Co., Calif.

June 11 Have heard these birds several times in the last couple days, this is the first one I have seen. It ~~was~~ was shot while giving a — — — call, from an alder in a ~~g~~ small ~~grove~~ grove. Another is here, also giving same call. RCB 504. Later, in the afternoon, saw one near camp, where I have heard them previously, carrying food in its mouth. Shortly after this one was foraging in the redwood just over my head. There are also Chestnut-backed Chickadees here - I saw a family of them in the morning.

Banks
1959

Parus rufescens

3.1 mi N, 1 mi W Fort Dick, sea level, Del Norte Co., Calif.

June 12 Several times since I have been here I have seen &/or heard these birds, at least once saw a flock - apparently a family. This evening I shot one near camp from such a family group. It is # 517. The bird had a completely 2-layered skull.

Banks
1959

Turdus migratorius

July 1 Harts Pass, 6200± ft., Okanogan Co., Wash. — Several of these birds in the area — in fact they are very abundant. Found a nest about 12 ft. up (a bird flushed) in a 15± ft. Fir, the tree only a couple feet in diameter including all branches. Could not see in nest.

July 3 Saw as many as 5 birds feeding together in small area, with only one minor show of antagonism. In camp, saw a ♀ Robin chasing a Steller Jay around and around a small Fir. They made 5 or 6 quick circles — the Robin finally chased the jay to another tree, and then out of the area.

Banks
1959

Sialia currucoides

July 2 Harts Pass, 6200± ft., Okanagan Co., Wash. —
Saw a single individual of this species today.
July 3 observed a pair of these birds, and after a
long chase obtained one bird, # 671.

Banks
1959

Golden Crowned Kinglet.

June 14 Sunset Beach State Park, Coos Co., Oregon – Heard and saw a bird in a conifer at my campsite here. The area is mostly alder + elder + Rubus right at camp, but there are a couple of evergreens scattered around. The hillsides just outside the park are clear-cut, but were once apparently forests.

Banks
1959

Anthus spinoletta

July 2 Harts Pass, 6200± ft., Okanagan Co., Calif. — Obtained no. 665, which was sitting on a rock on the grassy hillside. When first seen it appeared to have a piece of grass (nesting material) in its bill. This is the only bird of this species I have seen definitely, although I thought this morning that one bird may have been a pipit. Later in the afternoon, at higher elevations as I climbed toward Slate Peak, saw several other pipits.

July 3 Saw several other pipits today, in the small valley where I did most of my collecting. They were up farther, where it was wetter and there was more water standing, and more snow yet.

Banks
1959

Geothlypis trichas

Apr. 18 Pebble Beach, San Mateo Co., Calif. Here in a very small area of cattail, ~~in~~ enclosed in dense brush, Rubus, etc., + apparently dried up, found 1 or a pair of Yellowthroats. Area is on side of hill, + certainly does not look like good habitat. The tules are just dried stems, only a dozen or so.

1 mi E Pebble Beach, Vias Ranch, 250 ft., San Mateo Co., Calif. A brilliant ♂ here in the thick Rubus on the roadside fence. This one also seems to be out of place.

Apr. 19 Several birds here today, at least 2 pairs, evidently in pairs, not just a group together. No water or typical habitat here.

Banks
1959

Bullock Oriole
Icterus bullockii

June 17 Shore Acres State Park, 100± ft., Coos Co., Oregon
Although I did not see this species here, I have reason to suspect its occasional presence. While talking to Bruce Barker, Park Foreman, he mentioned a bird that was largely orange and black. From the plates in Peterson, he picked this species as being most like it, although he said he could not remember exactly how it was colored. Later his wife, talking about the same bird said she had tried to look it up in a book, and came out with Baltimore Oriole. Their home is right here at Shore Acres Park. I looked at the area briefly, but didn't see or hear anything.

Banks
1959

Molothrus ater

June 16 1 mi. S Shore Acres, 500± ft., Coos Co., Oregon — At 9:45 a.m., at the quarry, shot a ♀ cowbird on the ground. It is presumably one of a pair I had seen here a couple days ago. I did not see the ♂ at this time, but could hear him somewhere in the vicinity. On dissection, the bird was found to have an unshelled egg in the oviduct, three ruptured follicles, and ova 7, 4, and 2 mm. in diameter.

June 17 Sunset Beach State Park, Coos Co., Oregon
Several times during the morning I have heard the rattle of the ♂ cowbird flying over the camp grounds here.

Banks
1959

Pinicola enucleator

July 9 Kaisen Pass Meadow, 9100± ft., Fresno Co., Calif. - Obtained one bird from a group of 4 or 5 which I surprised while feeding on the ground at a slightly high + dry place in the meadow, near the edge. This bird's throat was full of very small seeds. It was a ♂, but with small testes. 689.

Banks
1959

Carpodacus cassinii

July 10 Kaiser Pass Meadow, 9100± ft., Fresno Co., Calif. — These birds are very abundant in the pines surrounding the meadow, and in fact all over the area, probably the most abundant species. There appear to be many young birds flying about. One bird, at least, was giving a two-parted note, "chir-up", very House Finch ~~but~~ like, but also sounding like a slightly hoarse Vireo solitarius. Collected this bird and tried to put it up as RCB 697, but it was in too bad shape. The head needed washed, + all neck + face feathers came out in the process. It was a ♂, with bright reds on the crown, weighed 27.6 gm., had testes 7×4 mm. and no cloacal protuberance.

Banks
1959

Leucosticte tephrocotis

July 2 Slate Peak, 6900±ft., Okanagan Co., Wash.

As I was walking up the road to this peak from Harts Pass, groups of 3 + 4 of these birds flew across the road ahead of me and settled in the rocks + "talus" where blasting and bulldozing had shoved them over the side. The birds were blown by fairly heavy wind as they flew. One or two alighted in the tops of small (3-4 ft.) trees, but almost immediately went to the ground. I obtained one bird, 666, and the others took flight in a flock - estimated 25. Elevation is estimated.

Banks
1959

Spinus pinus

June 15 1 mi. S. Shore Acres, 500±ft Coos Co., Oregon — obtained one specimen in the clear-cut, burned, brushy area here, RCB 540. It was feeding on a dandilion-like plant. This is the only one of this species I have seen here so far. This bird turned out to be a ♂, very fat, with testes 6×4 mm. It's crop was very full of seeds, mostly of the plant he was feeding on when shot, but some larger things also.

July 2 Harts Pass, 6200±ft. Okanogan Co., Wash. — obtained one of a pair in a clump of D. Firs. The birds seem quite abundant here.

Passerculus sandwichensis

June 18 Netarts Bay Spit, sealevel, Tillamook Co., Oregon - These are many of these birds on the spit, in close association with White-crowns. Their territories (of the 2 species) seem in complete overlap, they will often be right together in bushes, and join in alarm notes when I am close. Collected one bird. #586.

July 1 Harts Pass, 6200± ft, Okanagan Co., Wash. - this locality is way off the shaded area of the range map in Birds of Wash. I quite distinctly heard the birds sing several times on the S slope of Slate Peak, about dusk, at an elevation of probably 6400 ft. Could only get glimpses of the

July 2 birds. //// Heard these birds today, saw one flush with a White-crown. Collected #662 after I had heard one sing from a clump of 2-4 ft. Firs in very wet meadow, snow not more than 15 ft. away. In the afternoon, found a nest with 5 eggs. Nest is on the ground, partly roofed by grass and herbs, and is composed of dead grass. About 8 ft. from a douglas Fir.

July 3 This bird seems to be one of the most abundant in the area, perhaps the most abundant. The nest today still had the 5 eggs.

Banks
1959

Pooecetes gramineus

May 24 Prosser Creek, 5600 ft., 2 mi E, 1 mi S Hobart Mills, Nevada Co., Calif.

Observed these birds on several occasions on this date. Saw 2 birds in a chase, but do not know if it was sexual or territorial - it went a long ways, and both birds seemed to settle down together. Collected one bird, which was a ♂ in breeding condition (RCB 468)

Banks
1959

Junco oreganus

Oct. 2 Sagehen Creek Exp. Sta., 6400 ft; 3 mi NW Hobart Mills, Nevada Co., Calif. – John Hopkirk caught a Junco in a snap trap near the garbage dump. It was in final stages of molt, with outer primaries, nape and posterior crown in sheath. (RCB 703)

Oct. 3 John got another Junco (RCB 704) in a trap. It was further along in molt, with only some rear head feathers not grown.

Banks
1959

Spizella pusilla

Oct. 3. 3.6 mi N., 1.8 mi E Calpine, 4950± ft., Plumas Co., Calif.
Obtained one bird here in sage brush, near scattered pine and a grass flat. It was associated with Junco oreganus, Zonotrichia leucophrys gambelii, Sialia currucoides, which were all feeding in the grass and sage. The bird had an ossified skull, was very fat, ~~when~~ weighed 13.9 gm. There were other small Spizella type sparrows in the area.

[...]anks
1959

Zonotrichia albicollis

Apr. 11 Strawberry Canyon, Alameda Co., Calif. - just before noon heard this species singing on the N-facing slope, toward the bottom of the canyon, close to the tennis courts. I went to the area, and the bird responded to squeaking; it was in the brush and low trees. The white throat patch was very evident, but I couldn't see much else. The song had two notes to begin, the first highest, then several series of 3 notes each, lower than either of the introductory notes, so: — — - - -, - - -, - - -
The bird sang quite often, but not very regularly. Jerry Brown also heard it.

Banks
1959

Passerella iliaca

July 1 Harts Pass, 6200± ft, Okanogan Co., Wash. - the song of this bird is quite common here. A singing bird flew from one clump of firs to another, where it got shot. This is 658.

July 2 Obtained another bird from a clump of trees. 663.

July 3 Saw a pair of birds together, both carrying food in their bills - I assume they have a nest with young.

Banks
1959

Zonotrichia leucophrys

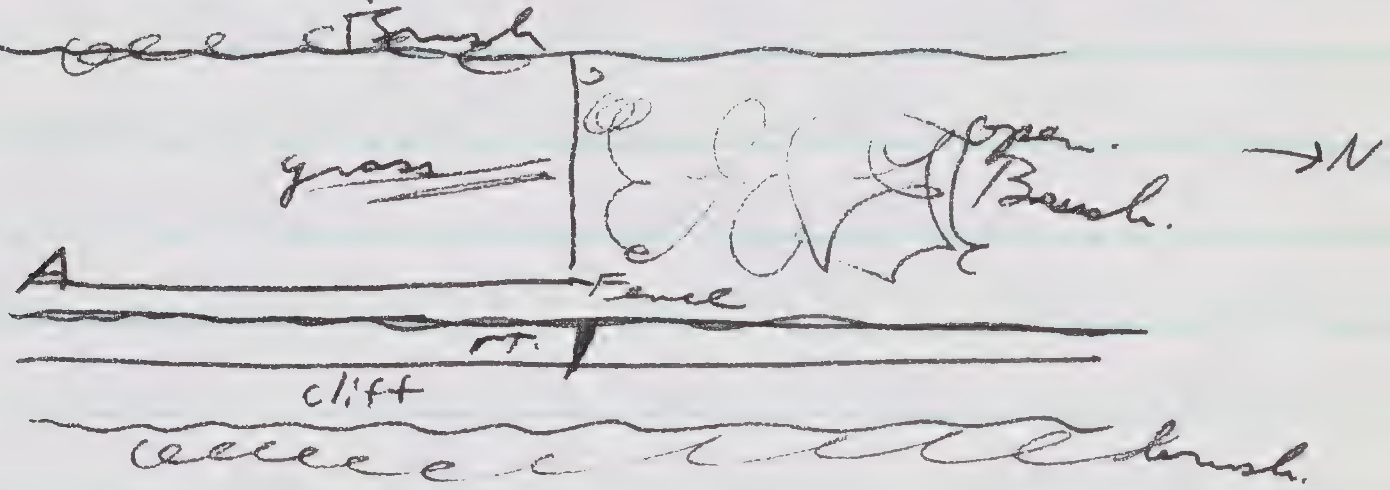
Apr. 18 Pebble Beach, San Mateo Co., Calif. Got 6 birds here in the morning, about 8–10 am. The first was in a Lupine along the road by the beach pulloff. The second was on the fence across the road. Shot and lost one here also, + another was present here. The fence was lined with thick Rubus vines. Just N of the beach pulloff is another road cut-off, where I parked for a good while. Observed a copulation here. Across the road shot a bird ( ) with a bill full of insects. It's mate was shot at, but flew away. Found the nest in a Baccharis with one young, about 7 days old. Got bird #4 feeding, again with insects in bill, on a dirt road leading to a field. A fifth for this area ( ) was in thick low brush, associated with a flock of Golden-crowned Sparrows. It's mate, I guess, flushed from nearby, but no shot possible. The last bird was on the ground in an open sandy area sparsely covered with grass and small forbs. Some of the birds here seem almost flocked - Often see 3 or 4 together.

~~[illegible]~~ 1 mi. N Pomponio Beach, 150 ft., San Mateo Co., Calif. This is a narrow (75 yd.) strip between Rt. 1 + the cliff, covered with low Baccharis + sage.

Banks 1959.

Zonotrichia leucophrys

18 Apr. 1 mi N Pomponio Beach, 150 ft., San Mateo Co., Calif.
There are a lot of birds here. Got first bird.



(#7-) in open brush. #'s 8-12 were along fence near A, atop a cliff formed by the road cut. This strip 100± yds. long had 4 or 5 pr. of birds in it. These birds flew across the road (rt. 1), where other birds were singing. They did not fly far (30 yds or so) along the fence. Birds from the fence A also fed in the grass, sharing it with the birds living on the other side, in the brush along the cliff top. When disturbed, some flew to each side. No conflicts when feeding together. So, the nesting area seems to be strictly territorial, along the fence, but they feed together & may take shelter across the road.

1 mi E Pebble Beach, Weis Ranch, 250 ft. San Mateo Co., Calif. Got 2 birds here, 13 & 14 [380], both along the 'old Coast Road'. They seem to be concentrated here, & are almost entirely absent in the brush

Banks 1959

Zonotrichia leucophrys

18 Apr. 1 mi E Pebble Beach, Dias Ranch, 250 ft., San Mateo Co., Calif. in the fields. There were a number of pairs – almost appearing like a flock – lining the road, but all were extremely wary and the brush was very thick.

1 mi N Pomponio Beach, 150 ft., San Mateo Co., Calif. – Shot #15 for day ( ) in flat open brush area, close

19 Apr. to where #7 was. Next morning, got #16, in same area. Birds still plentiful here, but wary – could not get close enough for a shot.

Pebble Beach, San Mateo Co., Calif. – Got a pair here (17-18) and saw a large number, apparently together, in brush about 100 yds. inland from road. This appears to be a flock, since they are all together and don't object to one another. A few Golden-crowns with them.

1 mi E Pebble Beach, Dias Ranch, 250 ft., San Mateo Co. Saw Golden-crowns near here also. Shot bird #19 (#382) from fence post. Many white-crowns in brush along road, a few making regular trips to certain areas as if gathering food, the others just sitting.

18 Apr. Bird 13 (RCB 380) ♂ 33.0 gm. Tes 10x6 was rather fat, had cloacal protuberance; skull showed two areas of slightly less than double-(oo) layering. back

Zonotrichia leucophrys

18 Apr. 1 mi E Pebble Beach, Dias Ranch, 250 ft., San Mateo Co., Calif.
Bird 14 (RCB 381) had brown crown, slight single layer in skull far toward front. Wt. 31.5 gm., fat, esp. concentrated in neck region, tes. 9×5 mm.

19 Apr. Bird 19 (RCB 382) ♀ with largest ova (2) ~~2~~ mm. diam. No brood patch; oviduct only slightly enlarged. Fat on neck + back regions.

Pebble Beach, sea level, San Mateo Co., Calif. — Bird 18 (RCB 383) 2d of two shot together, ♂, slight cloacal protuberance, tes. 11×4 mm., wt. 29.4 gm. Bird 17, mate of 18 (RCB 384), ♀ with welldeveloped brood patch, very fat, wt. 32.8 gm., but largest ova only 2 mm. diam. No sign of recent [Perhaps one old ruptured follicle, acc. to Bill Maher] or near-future laying. Couldn't find oviduct. Fat concentrated on back, neck, and axillary regions.

Apr. 18 Bird #1 (RCB 385) is ♀ with no brood patch, ova all tiny (under 1 mm.). Extremely fat, weighed 26.0 gm; fat heavy on back and ventral surface, as well as neck. A couple sheathed feathers (body) came out as I was skinning. ~~[illegible]~~ Bend of wing white — probably gambelii. Bird #2 (RCB 386) — brood patch ♀, ova small + oviduct small, no recently ruptured follicles. Only slightly fat, in neck area. Bird #3 (RCB 387) ♀ with brood patch, ova small, no recently ruptured follicles, small oviduct, this bird was carrying insects in bill when shot, + was parent of a 7± day old young in nest. Bird #4 (RCB 388) was collecting insects on ground. It is ♂, tes. 10×6. Cloacal protuberance well developed. Bird #5 (RCB 389) was a ♂ with testes 9×6 mm. It was

Zonotrichia leucophrys

Pebble Beach, ~~(?)~~ sea level, San Mateo Co., Calif.

Apr. 18 shot in thick low briary brush, and another bird, which I assumed was its mate, flushed from nearby; a flock of Golden-crowns had just passed through. Bird #6 (RWB 390), shot feeding in the open, is ♂ w testes 8×5, wt. 29.2 gm.

1 mi N Pomponio Beach, 150± ft, San Mateo Co., Calif.

Bird #7, (391) badly shot, 1st yr. plumage ♂, testes 9×5, wt. 29.3. This bird shot in company with another, which I never managed to get. Bird #8, (RWB392) was a ♂ with tes. 9×5 mm. This bird had 3 Nematode worms in the cavity of its left eye socket, another extending into the nasal cavity. Wt. 30.1 gm. Bird #9 (393) was in the same fence row. This bird, a ♀, had well developed brood patch, large oviduct, but small (2-3 mm) ova—perhaps one fairly recently ovulated follicle. Wt. 30.0 gm. Had a large tick on side of neck. #10, (394) in same row, is ♀ of 27.5 gm., small ova, oviduct slightly enlarged, brood patch not well developed, least in ventral area. Bird #11 (RWB395) weighed 29.4 gm; same fence row; ♂, tes. 11×6 mm. Bird #12 (RWB396), same row, ♂, tes. 11×6 mm., 31.1 gm. 3 ♂, 2 ♀ from this row; #12, I think, was paired with either #9 or #10, (prob. 9?). #15 (RWB397) ♂, tes. 9×6, 31.4 Gm.

Apr. 19 Bird #16 (398) is ♂, tes. 11×6 mm., wt. 30.8 gm. In company with another bird which I could not obtain.

Zonotrichia leucophrys

2.2 mi. NW Bolinas, 300±ft., Marin Co., Calif. –

May 1. #4 today is RCB 399. ♂, tes. 10x6, wt. 28.1 gm. this bird was shot from the road in the morning. Put up fresh – all others were frozen. Bird #1 of this trip is RCB 400. this ♂, Tes. 8x6, no fat, 28.0 gm., was shot in company with another bird, just after I had heard from them sounds of begging type or actually of copulation. The other bird was not obtained. Bird #2 is RCB 401. This bird was singing atop a shrub the the shrubby pasture. It is a ♂, 27.2 gm., with tes. about 10x7 mm., very slightly fat. No. 3 is now RCB 402. Shot from along the road, it is a ♀ with slight fat, concentrated on the feather tracts, and ova 1.5 & 3 mm. Brood patch well developed. Wt. 27.5 gm. Bird #5 is RCB 403 – ♂, tes 9x5, wt. 30.1 gm. This bird was shot from car, near the entrance to the RCA tower area. #7 & 8, a mated pair, were shot along road – she had well developed brood patch, no recently broken follicles, he had 9x7 mm testes & large cloacal protuberance. #14 was shot in a brushy field, low on the slope, and is a ♂ (RCB 406) with tes. 9x6 mm., wt. 30.9 gm. #13 was shot near 14, of a different pair, (RCB 407), & is a ♂ of 31.0 gm. with testes 9x5. Neither showed fat. Another pair, RCB 408-9 were shot along road. She was first, about noon – had what appeared to be a fecal sac in bill. Saw him but couldn't get a shot.

Zonotrichia leucophrys

May 1 2.2 mi NW Bolinas, 300± ft., Marin Co., Calif.

About 5 pm. returned and shot the ♂ who sulked in the same bush in exactly the same way - I am sure it was the same bird. Both in breeding condition. The ♀ of this pair sat up high on fence + gave alarm notes, the ♂ hid in the bushes - exactly reversed from the usual situation. Bird 10 (RCB410) was one of two which flushed from a low sage. The other flew 20 yds or so to another bush, then 2 birds left that bush + flew on. As I chased them, they were joined by others until soon there were 4 together. One of these I obtained, no. 11 (RCB411) but don't know its relation to 10. No. 11 was a ♂, but its abdomen was featherless and gave the appearance of a brood patch - thick-skinned, etc. - almost like a ♀. Had a cloacal protuberance; brood patch not as extensive as on a ♀. #12, got later in same area as 11, is a . It was with another bird. No. 9, (RCB413) flushed from a Baccharis. No. 15, which I chased back + forth in some willows near a stream, was a ♀ w/ brood patch and an over # mm. indium, others smaller. Oviduct large but empty. Bird 16 which I got directly across the road from 15 + a few minutes later had an 11 mm. egg in its oviduct and 3 ruptured follicle. This is a brown-headed bird

Banks
1959

Zonotrichia leucophrys

May 9 _Mendocino Co., Calif. coastline_. – Hit the coastal highway just S of _Albion_. Between this junction & the city, saw a White-crown in the road. Going farther N., saw no more birds. In much of this area, esp. from Albion to Little River, the Redwoods & pines come to the road, sometimes almost to the shore. The area is almost lacking in coastal "plain", and what there is is just grass – often sheep grazed – with none of the typical coastal scrub. There appears to be very little sparrow habitat, and the birds are not obvious, if present at all. Just N of the city of _Mendocino_ saw a bird fly across the road to my left, & it sang just as I passed it. I heard one long note followed by a rather descending series of shorter notes, but w/o the range of tone heard in the Bay area. At the headlands of _Russian Gulch State Park_ a couple miles N of Mendocino, there is some very low, scattered _Baccharis_, and there are some White-crowns here. One sings starting with a single fairly low note, then a trill starting higher and descending only a little, with a peculiar twist on the end:
Others lack the twist, but all seem to

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May 9 Mendocino Co., Calif., coastline - start with only one long note, and all have a trill that does not go far down the scale, although it may be rather long. Just north of Caspar there is a field with extensive brush, and although I can hear Western Meadowlarks, I do not hear any White-crown song. A little ways farther a road extends in thru some similar but less dense brush - here I heard a few birds. This "brush" is mostly high weedy herbs, not "scrub" material. North of Fort Bragg, as far as Ten Mile River, the habitat is good and the birds seem reasonably common. About 1½ mi. N of Ten Mile River 1030 hrs.-1115 hrs. I shot birds 1-6 for this trip, along a stretch where the old road pulls off + parallels the newer one. These birds were in Baccharis along the road or in fence-line brush. I either did not see or could not get their mates. Further north, clear to Westport, the brush along the road has these birds in it, and the slopes are pretty brushy, at least in the draws. It appears that White-crown habitat is pretty continuous north of Fort Bragg. Drove on to Westport, saw birds + good habitat all the way. Back to mouth of Ten Mile River. The Foster Bros. said O.K. to collect on their land. During

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May 9 Mendocino Co. Calif. coast - the afternoon worked on the field just north of the river -
→ Mouth, Ten Mile River, sea level, Mendocino Co. Calif.
The afternoon was very windy, and the birds were deep in the brush. There was not much singing. Most birds flushed as singles, but many were in two's, a lot in 3's or 4's. It doesn't seem that nesting has progressed very far here yet - I saw no food carrying. Seeing so many in 3's or more also indicates (maybe) that the birds are still in the process of settling down. Got four birds only this pm. The first (no ♀) was one of a pair - the others all singles, as near as I could tell. One observation may explain some of the difference in sex ratio in the collected birds. Heard a ♂ sing, started toward him. As I was still far off, a bird flew from that area. But the singing continued. It seems that the ♀'s may flush very easily, while the ♂ sits tighter.. These birds did not sing from the tops of bushes as much as others I have noted in other places, but from down in the brush, + are a lot harder to spot.

May 10 Back early this morning, had 10 birds by 9 a.m., 15 by noon. Early in a.m. heard two distinct song types: one started with the single note, followed by a descending trill: — ‑‑‑‑‑. the

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May 10 Mouth Ten Mile River, sea level, Mendocino Co., Calif.

other was more common and the trill was preceded by 3 notes, which sounded like "wee che wee trill". Sometimes the last note was the twist mentioned earlier - a buzzy note - but this seemed to be optional. Most birds were singing this song. Of the birds shot today, FGHI were all feeding together. Most or all the others seemed to be in mated pairs. J, K, + L were obviously so, J + K having, by the sounds, just copulated. L was territorial, M was paired. B + C were singing, as was L, all the second song type. Got two more birds late in the ~~late~~ early afternoon (2-3 pm). On way back, saw no birds between Mendocino and Albion, but saw and heard birds between Albion and Elk, where there seems to be better habitat. See journal.

Of the birds collected May 9, all seem to be in breeding condition; all ♂♂ had cloacal protuberances, the ♀ was about ready to lay. Following is a list of this weekend's specimens, with comments.

Field No.	My No.	sex	comment
7	436	♂	paired, mate not obtained
8	437	"	didn't see a mate
9	438	"	"

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May 9-11 Coast of Mendocino Co., Calif. — continued table.

10	439	♂	didn't see mate
1	440	♂	singing
2	441	"	all along pulloff of old road.
3	442	"	
4	443	"	
5	444	♀	about to lay
6	445	♂	
May 10 A	446	♂	— small.
N	447	♂	big
O	448	♂	brush along fence
Q	449	♀	oviduct large; no recent follicles busted but 2-3 old ones. p.m. not singing brood patch.
P	450	♂	p.m. "
B	451	♂	singing song 2 described in notes,
C	452	♂	(with buzzy end) " " " "
F	453	♂	one of 4 feeding together. " " " " — no broodpatch
G	454	♀	" " oviduct enlarged, ova 3 mm.
H	455	♂	one of 4 together —
I	456	♂	" " " " " —
M	457	♂	one of a pair
J	458	♀	had just mated (judged by sounds) had not yet laid.
K	459	♂	just mated (sounds.)
D	460	♂	
L	461	♂	singing, territorial, mated. K's neighbor.
E	462	♀	egg in oviduct - one ruptured follicle - ova in ovary 9 mm + 5 mm diam. Brood patch defeathered only.

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May 23 Inspiration Point, Tilden Park, 1050±ft. Contra Costa Co., Calif.
It was noted one week ago that this road leading from Inspiration point to the Nike Base has a large population of singing birds. On May 16 M. Konishi found a nest along here. Today I saw 2 birds near the junction of this road and the main park road, leading toward San Pablo Res., and obtained another singing ~~male~~ bird. The one shot (RCB 464) was singing from a perch in tall mustard, and there were no bushes (Baccharis, etc.) very close — just tall weeds.

May 24 Prosser Cr. 5600 ft, 1 mi. S, 2 mi. E Hobart Mills, Nevada Co., Calif.
Worked in the stream valley here, in scattered willows + occasional thickets, not dense. As I left car, parked in sage, heard White crowns singing in sage. Saw one pair along a tiny stream (flowing into Prosser Cr.), feeding adjacent to Artemisia. Couldn't get either bird. One sang from a small isolated pine in the sage. Along the stream, birds were not abundant. Mostly they seemed paired, but at least 3 (maybe 4) together in one spot (#466 is one of these). The birds were very secretive + hard to get shots at. They flew long distances, sometimes across the stream, but at least some were

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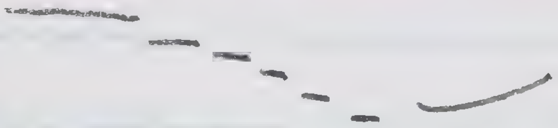
May 24 Prosser Cr., 5600 ft., 1 mi S, 2 mi E Hobart Mills, Nev. Co., Calif.

territorial and there was some singing, esp. early in the morning (till 10). The song is initiated by a long buzz, followed by a series, descending in pitch, of rather forced buzzy sputters, each of 2 or 3 notes, and ends usually with a note of upward inflection. The whole song is buzzy, not clean + whistled as in the Bay area. It can be diagramed:



The first bird shot was on a fence post along the top of the stream bank in sage, and was singing occasionally. It is RCB 465. The second was quiet, in a dead low sage (RCB 466) near where a mated(?) pair had taken refuge. I am sure there were 3 or 4 birds very close here. #467 was shot after noon, upstream a ways, and was with another bird, which got away. It was in willow.

Middle Martis Cr., 6000± ft., 4 mi E, 2 mi S Truckee, Placer Co., Calif.

Arrived here 3 PM. Along this small stream at the edge of Martis Valley, saw one singing ♂, and another pair (probably) of White-crowns. Song as above.) The singing bird was in a pine at edge of sage

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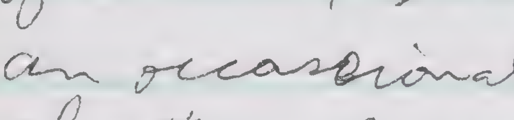
May 24 Middle Martis Cr., 6000 ft., 4 mi E, 2 mi S Truckee, Placer Co., Calif. along the Willow + Aspen bordered stream; the pair were in willow, but one flew off into sage. No specimens were obtained. There seem to be very few birds along here.

June 4 Univ. Calif. Campus, Berkeley, Alameda Co., Calif. — a pair of birds here. Dan Willhoft shot a singing bird from a small pine tree with his sling shot — corner Oxford + Center sts. RCB 469.

June 7 Weott, 150 ft.±, Humboldt Co., Calif. — As I stopped in this little town (150 pop.) for a coffee stop, thought I heard a White-crown sing. Heard the song twice, but although of the pattern it sounded coarse. A little later, heard it again about 100 yds. from the first spot — no doubt, it is a White-crown. The song is — — - ⌣ with the buzz on the end, typical of the Ten Mile River birds. The area here is a small valley, surrounded by Redwood covered hills. It gives the impression of a civilized mountain meadow (much grass, weeds) but with little or no [So. Fork Eel River] water apparent. Birds singing (only one, as near as I can tell) at 1:30 p.m., P.D.T. Right in town, so no opportunity to collect. A very unusual + remarkable occurrence. This is 23 mi. East from the coast, opp. the Cape Mendocino area.

June 8 Coyote Peak, 3000±ft., Humboldt Co., Calif.

The white-crowns here are rather sparse, but not as much as it would seem at first. They are in the burned area, which consists of charred standing trees and logs, grass, an occasional small clump of brush. Shot #470 by a dead tree, near where a ♂ had been singing. While getting this one, the singing bird sang a couple times near by, then flew. 471 was one of several birds singing back + forth. 472 was sitting w/o singing on a branch of a fallen tree. 473 was singing antiphonically with another bird. The song pattern in this area is rather standard.



The introductory note is followed by three rather buzzy, lower pitched notes, usually followed by a buzzy upswing on the end. 474 was a little ways from the last 3, and sang after I flushed it. It had also been singing just before, however, + also earlier this a.m. In same general area as 470.

Bird 470 had an egg in her oviduct, also a 9mm. ovum in ovary, only 1 broken follicle - apparently had not laid yet. Broodpatch well developed. 471, although I thought it was singing, is a ♀. Others ♂. In the afternoon, out again, got 475 - mouth full of insects, around Maple seedling clump.

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June 8 Coyote Peak, 3000±ft., Humboldt Co., Calif. (cont'd.)
There is a fairly sizable but scattered population here. They are restricted to the burned-logged area (see Journal). Yesterday on my way here, heard birds at the little bald spot about 2 mi ENE of here. The bald spots here at Coyote have no sparrows — they are around the sprouting clumps of Tan Oak + Maple in the burned area, and make extensive use of the dead snags + logs for singing perches.

June 9 #476 was one of several birds singing antiphonically. All this group have a pre-introductory note, so the songs go like: — =⌣ . Shot another bird, which was almost in a "flock", at least very close by ~~many~~ several others, but it lodged in a tree + I could not get it. 477 is quite removed from others. One bird was foraging in the grass, + it chippingly led me ~~toward~~ another, which I got. 477 Had insects in mouth, brood patch. All these birds are extremely wary, hard to get close enough to, to shoot. 478 — probably mate of 477 — shot very close, but several minutes later. When leaving this area, heard a White-crown at about Dolason Hill prairie (same map) + assume they are spread throughout this bald hills area.

June 9 Prairie Creek Redwood State Park, Humboldt Co. Calif.
Heard a bird at the south end of this park, along Rt. 101, near the campgrounds.
3.1 mi N, 1 mi W Fort Dick, sea level, Del Norte Co., Calif.
The brushy borders of the pastures bordering Smith River here support a fairly good Zonotrichia population. Typically, they seem to be in brush clumps or fence rows, but a few are in edges formed by riparian woods or rows of Redwoods. #485 flushed as I walked by, and was shot from a dead weed stalk sticking above the grass. #486 was very close by, and presumably is its mate. #487 attracted my attention by singing, and was shot from a Broom (?) plant. The major brush plant here is, I guess, ~~Sch~~ Scotch Broom or something similar. It is a plant with yellow snap-dragon like flowers, small leaves, and legume pods.

see next pg.

June 10 488 was sitting on a stump with another bird. The other flew away, but in a minute I heard a bird behind me. One sat in a redwood. I shot it but it stayed in tree - dead. Couldn't get it. This may have been a purple finch - sun in my eyes. 489 was chipping close by 10 min later. 490 was sitting on a fence post, between a weedy field + a planted one. It flew to an alder, + got shot. 491 + 492 were together in an alder. Twenty min. later, 2 birds on

June 10 3.1 mi. N, 1 mi. W Fort Dick, sea level, Del Norte Co., Calif.

fence where 490 had been. They both flew + foraged high in the alders. 493 was one of 2 birds that flushed from high grass to an alder.
494 sat chipping in a small willow.
495 was singing in the top of a 12' redwood.
Saw bob-tailed young out of the nest today.
The plant I called "Broom" is perhaps *Lotus* - see

June 11 Journal. //// Bird 499 was singing in the top of a small conifer (Spruce?) The song in this area is rather variable. The major pattern is:

The 2 center notes are run together. Bzz Bu Beju Bzz Bu

500 was singing this pattern in an alder.
501 also was singing in an alder, but flew to some low lupine in the pasture. 502 was in a nearby clump of weeds, chipping, apparently mate of 501.
503 was singing from a dead stump 10' high, but flew to a small brush clump. Heard a bird singing from a pile of dead trees + stumps. As I approached, another flew up from the grass. 505 is this latter bird. 506 was singing from a 5' stump in a pasture, not far (30 yds.) from 505 + its mate. While standing quietly under the edge of some alders two birds started to chip, 507 is one - the other I shot, but it flew strongly into the woods.
#505 was a female (29.9 gm) with an egg in its oviduct, another 8 mm ovum, + 2 ruptured follicles.

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June 11 3.1 mi. N, 1 mi. W Fort Dick, Del Norte Co., Calif., sea level.
this bird (still 505) had a very large head, which would not fit thru its neck, which tore, and a bare area on its throat even before stuffing.

June 12 508 was singing from the same tree 495 had been. 509 was singing on a telephone wire along the road. There were 2 birds, presumably ♀♀, where 508 & 495 had been. When I got 495, there was one other bird there. 510 + 511 were sitting together in a dead tree at the edge of a large thicket. 512 was at the edge of a pile of logs + roots resulting from a cleared area. This is the ~~spot~~ where I got 490, and there is still another bird here; there were 2 on the fence after I got 490. 513 is probably one of the birds which were left after taking 508. It was in the same place. It is a ♀ - but whether the mate of 495 or 508, I can't tell. 514 was singing from about 25 ft. up in a dead alder snag. Saw a bird singing on a lupine, which flew to a pile of logs. As I approached, a bird, I think the same one, flew from the grass to this pile of logs. It is 515. 516 was singing from a redwood, 15 ft. up. This bird had an extra up-slurred note on the end of its song ‾ ? ‾ _ /
519 was obtained in the evening, as it sang from patches of high weeds in the pasture. Have saved a bottle of lice from these birds.

June 14 Sunset Beach State Park, Coos Co., Oregon - From what I can see, the whole Coos Bay area is poor habitat. The area is described in my journal. I can hear at least 2 birds singing from my camp here in the park, and this a.m. heard 2 or 3 others in the logged area. Rain this a.m. stopped my collecting, but hope to go out this afternoon.

1 mi. S Shore Acres, 500± ft., Coos Co., Oregon
524 led me a merry chase before it was shot from a Hazel in this clean-cut brushy hillside. A bird had flushed from behind me, two flew and I got this one. Can hear one singing — ~~tt~~ — ⌒ — — _, The ⌒ sounds like a low, high, + low note run together. Another in the distance is singing the same song. 525 + 526 were mates, shot on top of the ridge in the same type of habitat. She flushed as though from a nest, but I could not find it. 527 was singing from a Rhododendron, then flew to a 7' Douglas Fir(?). 528 was one of two birds giving the hard-to-locate "tseet" sound. 529 was the other - I had to chase it for a long time before I got it from a stump with a half-load. 530 was a bird I had shot + lost earlier. As I spotted it again, I grabbed + it ran, so I got only the tail, which came off. Finally got the rest of the bird.

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1 mi. S. Shore Acres, 500 ± ft., Coos Co., Oregon

June 14 A bird flushed, was joined by another. Both were giving the "teet" call - I followed a long way. 531 is one of these. 532 was chipping from a stump, near where I had shot + lost another bird. there was another bird present now, about an hour later. The area here on top of the ridge is a broad flat, but logged clean with many 5-8 ft. stumps. the vegetation is shrubby, a lot of Rhododendron, some large Rubus, what looks like Blueberries, but I'm not sure (it is an Ericacea) and other heath-like plants. White-crowns are the most abundant birds here. The area has been burned, there is very little of the grassy area which I had felt White-crowns need for foraging, altho there is grass + herbs between the brush. 533 was one of several birds in a small area - perhaps 2 neighboring pairs. 534 was in the same area, one of several birds I chased for a long while. Lost at least one other. 535 I caught by hand. It is a chick, apparently just out of the nest. appears to be about 9 days of age. I did not see the adults, but from the chipping, I certainly believe it to be a White-crown. 536 flushed + sat on a stump

7 p.m.
June 15 537 was one of a pair - a bird singing at the quarry was joined by another - this is one of them

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1 mi S Shore Acres, 500±ft., Coos Co., Oregon

June 15 As I was walking up the slope thru the brush, 538 flushed & perched in a Rhododendron. 539 was one of 2 chipping birds - I think they had young out of the nest. There is another pair of birds very close here - they keep getting mixed up, so I can't tell which is which. Saw barely flying young in an area which seems midway between the 2 pairs.

2 mi S Shore Acres, 700±ft., Coos Co., Oregon

Continued on this trail until nearly dark. It goes past Cape Arago, giving a good view. 541 was one of two birds which flushed.

1 mi S Shore Acres, 500±ft., Coos Co., Oregon - Birds singing here until 9:30 pm., when it was ~~very~~ nearly dark.

June 16 543 sang from the top of a charred stump. It's mate flushed & immediately disappeared. 544 was chipping in alarm, very close to the site of collection of 539. I believe it is one of the other pair mentioned above. This is just within the large valley. 545 was one of 2 birds in what seemed to be courtship behavior. A bird flushed from under a log, and flew to a small ravine. It was joined in chipping there by at least 2 others, one of which sang occasionally. I am beginning to wonder if some of these birds nest in threesomes. Or

June 16 1 mi. S Shore Acres, 500±ft. Coos Co., Oregon
perhaps neighboring pairs are not territorial in times of danger. One of the former birds is 546. 547 was on the next territory – it seems the chipping of 3 birds mentioned was a pair and one of a neighboring pair. 548 is mate of 547. 549 was in this same territory, and is undoubtedly one of their young. 550 was a bird which started chipping when I was a long way off. It was observed to engage in flycatching activity. 551 was singing from the top of a charred stump, 9 or 10 ft high. 552 flushed, flew to a Rhododendron and sang once. As I approached to retrieve it, another bird flew from the bush. Looked for a nest, but without success.

June 17 Some songs here in the park have the slurred note ending high –: – ~ – – –,

June 18 6 mi S, 5 mi W Tillamook, 400±ft., Tillamook Co., Ore.
The song in this area is quite different, & I can hear 2 forms at present. One is: – – – ~ –, with one single note, 2 or 3 slurred, –, and 2 down-toned notes on the end, the last one a short chip. The other song is the same, with an embellishment on the end. It has stopped now. 558 was the bird singing the song described. It would sometimes leave off the last note. 559 was chipping on what was probably the next territory.

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June 18 6 mi S, 3 mi W Tillamook, 400± ft. Tillamook Co., Ore.

The embellished song spoken of is the same song as before, with 3 notes on the end: — ̄ — =´, the last 3 rather run together. 560 is the mate of the bird who was singing this latter song. They may have had young out of the nest.

Netarts Bay spit, sea level, Tillamook Co., Oregon

571 flew toward me & sat on a yellow Lupine. 572 had a mouth full of caterpillar larvae. 573 was nearby, flushed & chipped when I approached. Its alarm started chipping by another bird. This bird led me back into the territory of 572, where I think there was a fourth bird, but I couldn't get any more. There may have been young present there. 574 flushed ahead of me, and sat on telephone wires several times, where he was finally shot. A bird here on the spit is singing: ~~—~~ — ̄ — or — ̄ — — _, sometimes omitting last note. Chasing this bird and one ~~he~~ joined led me back 2 telephone poles to 574's area, and even then it flew on back toward where 572 + 573 had been. 575 sat on a Lupine. It appeared to have food in its mouth. 576 sat on a wire + chipped after I had passed, then flew down to the sand. 577 was in some very thick stuff, incl. blueberry, Rosa, bracken. 578 was on the

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June 18 Netarts Bay spit, sea level, Tillamook Co., Oregon
same or next territory as 577. There are still 2 chipping birds. 579 is one of these others. These are young out of the nest here, flying. 580 was sitting – and stayed – at the top of a very hard-to-climb fir. 581 was its mate, and stayed right there chipping for the 10 min. or so it took me to climb for 580. 582 and 583 are also mates, in the adjoining territory. 584 + 585 are also mates. Many of these birds were in close association with Savanna Sparrows, often sitting next to each other on wires or giving alarm chips from the same bush. I never saw any antagonism.

June 19 ~~Overlook~~ Lookout Point State Park, Tillamook Co., Ore.
A general observation while skinning: all ♀♀ who have had eggs in oviduct, or enlarging ova, most of whom have had young out of the nest, have had rather large deposits of fat, esp. on the ventral (breast) region.

June 20 Astoria, Clatsop(?) Co., Oregon – Birds I heard driving past here + Seaside, a few miles down the coast, sound much like the Tillamook birds.

June 21 2 mi S, 3 mi E Westport, Gray's Harbor Co., Wash. sea level
One bird at this cut area. It is singing, and ranging quite widely, across the road. Its song:
— — – – ‿ , the last a rolled "tll",

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June 21 4 mi S Westport, sea level, Grays Harbor Co. Wash.

599 was singing in a small clump of willows, on this windswept grass covered area. 600 was near by, one of a pair in willow at the end of a slough. Both their songs were similar to the one described previously. Another bird here sings: — ᐢᐢ — - - - - -, very different from anything I've heard before. 601 flushed from the grass and sat on a fence post. This is where the bird with the odd song flew to, but it is half an hour later now. But this may be that bird or it's mate. 602 was one of a pair at a pile of driftwood, right at the edge of the beach. 603 is a ~~bob~~ no-tailed bird who was, I believe, singing before it flew to a pile of driftwood. There was what may be a full grown young with it. 604 was sing the odd song described just above, in a fir. Heard a third song, — ᐢᐢ ⌒, this population has a highly variable song pattern.

June 22 605 was one of two birds around a heavily drift-wooded area. Its mate was singing the song first described for this area. 606 was singing from high grass near the beach — ‾ ᐢᐢ ‾ - - -, sort of a combination of the 2 song types. 607 was singing the first, more common song, from driftwood. 608 flushed several times, finally

June 22 — 4 mi S Westport, sea level Grays Harbor Co. Wash.

landed on a fencepost. For a long while I chased 609 around the same driftwood pile where 607 had been. They are probably mates. 610 was singing — ⌒⌒ — from a fir. This may be a bird that flew this direction after singing from a driftwood snag a hundred yds. or so away. 611 is one of a pair of birds who led me a long chase. 612 is the other. Got both with one shot, altho the second bird flew away + I wasn't sure. One of these had been singing the simple song, — ⌒⌒ ⌒, this seems, contrary to what I have said earlier, to be the most common type here. A variation adds 2 or 3 notes - - - to the end. This last pair, in their chase, had outlined a territory of about 50 x 30 yds.

2 mi S, 3 mi E Westport, sea level, Grays Harbor Co. Wash.

Back at this cut area and across the road from it. Quiet when I arrived about 7:30 p.m., but soon at least 2, perhaps 3 birds started singing, one far off. As I stood quietly near a pile of dead brush, a bird appeared + preened for several minutes. It began to chip, and another bird joined it from across the road, also chipping — it had been singing — ⌒⌒ ⌒ ℓℓℓ. This is the same place I heard a bird sing a different song yesterday morning. The chipping was on a

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June 22 2 mi S, 3 mi E Westport, Grays Harbor Co., Wash. sea level
different pitch, the bird coming in from across the road having a higher pitched sound. The chipping was because of a Raccoon which wandered over the brush, foraging, while the sparrows watched from a dead tree, they were not too upset. I shot one of the birds, 613, and the other stayed just where I could not get it for several minutes before it flew away. As I sit in the car writing these notes, I can hear a bird singing the song just described from here: — ‾ =__ lll. It changed to — ‾‾ ‾ lll, then to sort of a combination — ‾ = A lll, This bird varies, but always ends with the lll

June 23 4 mi S Westport, sea level, Grays Harbor Co., Wash.
A bird singing from a root snag flushed, was joined by 2 others, and led me in a circle. Eventually one resumed singing from the same perch. It is 615. 616 sang once, a partial song, from a driftwood snag. I wounded it + it ~~fle~~ flew to the most prickly bush imaginable, but finally I got it. There was a bird singing 30 yds away, from a big clump of grass. It flew to less dense grass + when I got there, there were 2. ~~Got~~ Got 617, one of them. Very close to beach. 618 led a long chase from the grass by the beach, to the sand, and back in behind the dunes. 619 was

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June 23 — 4 mi S Westport, sea level, Grays Harbor Co., Wash.
in the high grass near the beach, singing the common — ‾ ^^) . 620 flushed silently, without a chip or a song. 621 sang — ^^. A bird I can hear from 621's perch sings: — ‾ ^^) - - - .

June 24 — Victoria, Vancouver Island, B.C. — As I was driving thru town, heard a bird sing this pattern: — ‾ ^^ ‾ - - - .

June 25 — 1½ mi S Ladysmith, 200±ft., Vancouver Is., B.C.
622 was singing — ‾ - - ‾ - - - from small alders in a field of tall grass. 623 sat silently on a stump in this field, where there was more bracken, less grass. It had 2 spittlebug type insects in its mouth. 624 was in a fir clump near 623, and may be its mate. There was, however, another bird here in just a minute.

4 mi. S Ladysmith, Vancouver Is., B.C.
625 was one of 2 birds sitting on a small dead branch in this cleared field. As I shot, 2 or 3 others flew, probably a family. Have seen several fully grown young in this vicinity. 626 was, or had been, singing the standard local pattern, — ‾ - - ‾ from a dead tree.

General. The Ladysmith area has a lot of birds, but there are few places one can shoot. Today's journal describes area. Many of the

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Zonotrichia leucophrys

June 25 Ladysmith, Vancouver Island, BC, + vicinity
birds seen today were associated with what seemed like fully grown, probably nearly independent young, and were very wild. They flushed far off and were adept at using trees + brush piles for shelter where it was impossible or impractical to shoot them. Driving north to Qualicum - Parksville area, much the same habitat conditions apply.

June 26 2½ mi N Parksville, Vancouver Island, BC.
628 was one of a pair of birds in this weedy, grassy field. 629 was of another pair, at the other end of the field. There were only 2 or perhaps 3 pr. of birds here, all singing was:
— ⌢ ⌢ - - - -.

1½ mi N, ½ mi W French Creek, Vancouver Is., BC.
631 was one of a group of birds that flushed at my approach. These are still at least 2 chipping. There is a good number of birds in this burned + logged area, or else the same birds flying a lot - Probably half a dozen, with some full grown young. But they are very wild, flushing usually even out of half load range. The bird I got had lost some feathers on the throat, and had some pin feathers coming in.

Banks
1959

Zonotrichia leucophrys

June 26 11½ mi. W Parksville, Vancouver Is., B.C.
In a field of grass and bracken, 632 was ~~one~~ a bird where 2 were singing — — — —.
This bird flew from a place where young were. this is right on the Alberni Highway, just E of the park. It borders on a very marshy area, and across the road is a railroad track, where I also saw a bird on bracken.

June 27 Saw 2 birds in bracken, then shot one just as it was singing on a telephone wire along the road, 634. Shot at, but lost, the other bird. Both these were in the bracken exactly where the one obtained last night had been. There is a group of semi-flying young birds here. The bird obtained has a stubby, deformed upper mandible.

Alberni area, Vancouver Island, B.C. – this area toward the West of the island is served by both highway and railroad from Parksville. I heard the song of the White-crown at ~~three~~ four places. These were: 4.7 mi, 3.5 mi, and 3.3 mi, north of the highway junction at Alberni on the Beaver Creek Road, toward Great Central, and 3.1 mi N (or NW) of this junction on the River Road, toward Sproat Lake. All areas where the song was heard were in cleared areas around homes, and it was impossible

Zonotrichia leucophrys

June 27 Alberni area, Vancouver Island, B.C.
to collect a specimen. This species is supposed to be restricted to the east side of the island. My guess is that they have followed the highway and/or railroad and associated clearings; or perhaps logging operations with clearings, or both. The fact that birds were observed along the highway 11½ mi. W of Parksville & at the next two localities supports this.

.3 mi W Little Qualicum Falls Prov. Park, V.I., B.C.
On the S side of the road here there is a gravel pit, behind which there is a cleared area of perhaps 5 acres — this area has been cleared of even small trees, and is mostly bracken covered now, with a few small Douglas Firs. There was just one pair of birds here, and altho I got a shot I didn't get a bird.

Whiskey Creek Store, Vancouver Is., B.C. —
This is just 1 mile E of the entrance to Little Qualicum Falls Provincial Park. Across the road from this store I heard a bird sing. There are 2 or 3 houses here, just back from the road.

June 28 Kye Bay, Comox, Vancouver Island, B.C.
637 was singing — — — — — — — from an oak between a weedfield + a cultivated one. No sign of a mate here. 638 was one of 2 birds that flushed from a thick weedy patch + flew to a small willow. As I approached an area where I heard a bird sing, a group flushed. 639 is one. There were at least 3 others, and at least 2 of them seemed adult; the other may have been a young bird. Heard singing after shooting 639. 640 is another of these birds.

June 29 Oyster River, Vancouver Island, B.C.
642 sang the standard VI song from a dead fallen tree at the edge of a large cleared field. There was another bird present. 643 and 644 were together in a grassy area with a number of charred stumps and 1 D. Fir about 12 ft. tall. 654 flushed and sat on a fencepost.

Macauley Rd., 14 mi. N Courtenay, Vancouver Isl., B.C.
655 was in a small willow. Chased his mate but could not get it. 656 was in next territory, flushed several times. This cleared range land, with bracken + brush, seems to have a large population. 657 was in same tree as 655, probably the mate; a bird had led me in a large circle just before getting this. Heard birds all along the road (trip described in journal)

June 29 — <u>Macauley Rd, 14 mi N Courtenay, Vancouver Isl., B.C.</u> wherever there were suitable clearings, way back into the bush nearly to the edge of the hills.

June 30 — <u>Mission City, British Columbia</u> — Heard birds singing after I had passed through this town. The highway has followed the Fraser River Valley, and presumably this provides access for the birds. I would expect to find <u>nuttalli</u> as far as Agassiz.

July 2 — <u>Harts Pass, 6200 ft, Okanogan Co. Wash.</u> — Visited an area where I thought I had detected a W.c. song late last evening, saw 2 birds flush from grass near snow, one was a White-crown, one a Savannah Sparrow. The White-crown flew to a small clump of firs, and is #661. It seems to be typical <u>gambelii</u>. The song here, and I can now hear 2 birds, is [illegible] — ⌐ — — ↘, sometimes omitting last slur, the second note or notes quite rapid, seemingly a series of 3 _ ‾ _, perhaps in some [illegible] ‾ _. The song is quite high pitched & thin, very buzzy. There are several birds in this area, but they are difficult to get. The quality of the song is such that it is hard to locate, and it is very windy also. The birds flush well out of half-load range, fly far, and are very quiet. They are not abundant, mostly in small fir clumps in the wet meadow.

July 3 Harts Pass, 6200± ft, Okanagan Co., Wash. – Very little activity this morning. Heard very little singing. As I approached one spot from where I heard a song, a bird flew past me and landed in the grass. 672. This bird has black lores and seems to be oriantha. All afternoon, I did not see any or hear any of this species.

July 4 Left the pass about 9:30 a.m. On my way down the mountain, below layout, at a spot 3.8 mi. down from the pass, I heard White-crowns singing. The meadows here are quite extensive and the birds seemed very common. But being on my way home, and pressed for time, I could not stop.

July 4 The Dalles, Oregon – Jewett + Taylor mention this area as a possible oriantha site, as well as pugetensis area. The latter may be here, along the river, but from my casual views as I was driving thru on rt. 97, there is definately no oriantha country in the area. Mt. Hood, not far distant, may have oriantha

Zonotrichia leucophrys

July 9 Kaiser Pass Meadow, 9100± ft., Fresno Co., Calif. — #678 was chipping in a pine tree at the edge of the wet meadow. 679 was in the same situation, different place, much more actively moving around. 680 was one of a group of birds — probably two neighboring pairs. 681 & 682 were in that group, stayed close together, and are probably mates. 683 is undoubtedly one of their young — there seemed to be at least one other. 684 was taken from a tree where I thought I had seen an adult fly. 685, 686, 687, were in a group, all giving alarms, and there must be a pair here, but I'm not sure how it fits. 688 was in a dead snag. The song here at the meadow is fairly constant, :

, sometimes the last note omitted. Thoughts after skinning — got a very odd sex ratio today, 2 ♀♀ : 1 ♂, excluding juv's. Singing very weak and sporadic. Most of the birds, esp. the ♀♀, were slightly fat. Only one bird (681) showed any enlargement of oviduct or ova. None showed any recently ruptured follicles. All young seen were very large and flying, but there was no indication of a second brood, from the adults condition. One ♂ had small testes,

July 9 Kaiser Pass Meadow, 9100±ft., Fresno Co., Calif. probably entering resting phase, strengthening an opinion of only 1 brood / y. here.

.8 mi S Kaiser Pass, 8800±ft., Fresno Co., Calif. Here near my camp the White-crowns have a different song. Heard them last night, one about 9:15 p.m., another at 2:45 a.m. this afternoon while I was skinning, a bird sang constantly, the song being: — – – – — . this is the song heard yesterday also. At one time I thought I heard the song of the birds at the pass, but may have been mistaken – will listen tomorrow more carefully.

July 10 I did hear this song early in the morning, before I left for the pass.

Kaiser Pass Meadow, 9100±ft, Fresno Co., Calif. – First saw 690 feeding on the ground among the pines before I reached the meadow from the pass. It flew into a pine. Heard a song from a clump of pines, obtained 691 there. Heard the song after this, however. It was a long time before I got another shot. Saw 692 feeding in the grass. Later, saw another bird feeding in the grass – it flew to low pines where another joined it. One of these is 693. 694 + 695 are mates. Got the ♀ first. 696 was in a small willow clump. Young flew out! Just as I left the area, heard the song normal for camp.

Zonotrichia leucophrys

July 11 8 mi S Kaiser Pass, 8800± ft., Fresno Co., Calif. —
699 was one of a pair of birds, obtained after a long chase. As I was standing quietly observing a variety of species, 700 came into sight, from a direction where I had heard a bird sing. 701 was shot as it was singing
— —––– — from a dead aspen.
Heard White-crowns singing, as I was leaving the mountains, as far down as Badger Flat, which is about 8500 ft.

Banks 1959

Zonotrichia leucophrys

Oct. 3 1.5 mi E Calpine [illegible] ft. Sierra Co., Calif.

Shot one adult bird in sage brush.

3.6 mi N 1.8 mi E Calpine 4950± ft. Plumas Co., Calif.

A large number of White-crowns here in pines and sage brush. Shot one ad. + one imm. All these birds are *gambelii*. There are large numbers of these birds in essentially all habitats associating with junco's, etc. Very seldom I hear a snatch of song.

Mammals

Banks
1959

Citellus

July 10 Kaiser Pass Meadow, 9100± ft., Fresno Co., Calif. – Around the edge of the meadow, where it is drier, and near the road, are a number of holes of this animal. Often I heard their series of whistled notes " - - - - - - - - ", but only got glimpses of them. About 9:30 a.m. saw one which didn't go down its hole, then another by a clump of brush, and a third ran across the grass and stopped in the open. this one is RCB 698. This is not the same squirrel that is at Jackass Meadow – at least I don't think so.

Banks
1959

Eutamias

July 2 Harts Pass, 6300 ft, Okanagan Co., Wash. – there are a number of chipmunks right around camp, altho most of the ground still is snow-covered. Around the bases of trees and on the slop to the road it is clear. When I got to camp at noon, one had opened my loaf of bread and had eaten some. Late in the afternoon, shot one. It is 667, a ♀. Soon after, saw another one in the area.

Wildcat

July 3 Chelan Falls, Chelan Co., Wash. — Joseph Pisani, ice-man and taxidermist at Chelan, Wash., gave me a wildcat which had been killed on the road the night of July 3 near Chelan Falls. The finder had cut off both hind feet for the bounty. The cat weighed between 16½ and 16¾ lbs, without the feet. Pisani felt that the long tail indicated some "house" cat (domestic) influence, and said they interbreed. When I got out of town, I gutted the animal, wrapped it around a can of ice + brought it back to Berkeley. The stomach was empty, or at least not distended.

.8 mi S Kaiser Pass, 8800± ft, Fresno Co., Calif.

July 9 About dusk, when it was not yet completely dark, from the rocky-grassy hillside across the road I heard a sound like "pfffttt", rather shrill, repeated immediately in shorter version. I saw a wildcat moving along the slope at a fairly slow gait; my flashlight was not strong enough to reach it (±75 yds) but once it stopped and looked at me and I saw the eye shine. It was certainly a cat, not large enough for lion, but all I could make out was its shape.

Banks
1959

Odocoileus

May 1 2.2 mi NW Bolinas, 300 ft., Marin Co., Calif. - Found a spiked animal, dead a long while, in a *Baccharis* - sage field which is sometimes pastured by cattle. It was well dried and mostly skeletonized. Saved the skull only as RCB 416. Earlier in the day a short ways away saw a doe + fawn in pasture with cattle, near road. She jumped fence, but the fawn couldn't get thru - she crossed road and up the hill, leaving the fawn.

June 25 4 mi S Ladysmith, Vancouver Is., B.C. Today saw what appeared to be a pair of fawns - small animals, - in a cleared former forest area. One had a set of spikes in velvet.

Banks, R.C.

1960

Misc. U.S. Localities

Catalogue

nos. 715-847, 905-908

Banks
1960

Catalog

Feb 1, 1960

Santa Rita Mts., Santa Cruz Co., Arizona

715 ♂ Aphelocoma ultramarina skel. captured by J. Brown see sp. acct.

Feb. 7

3 mi. SE Knoxville, Napa Co., Calif.

716 ♂? Asyndesmus lewis coll. A.H. Miller

4 mi. E Pope Valley, Napa Co., Calif.

717. ♂? Aphelocoma coerulescens coll. A.H. Miller 97 gm.

Feb. 9

Bear Creek Road, Contra Costa Co., Calif.

718. ♂? Pipilo fuscus skel.

Mar 18

Wildcat Canyon, Tilden Park, Contra Costa Co., Calif.

719. ♂ Dendroica coronata 14.3 gm. pick-up. tes. 1 mm.

Feb. 28

5 mi W Santa Rosa, Sonoma Co., Calif.

720 ♂ Anas platyrhynchos skull tame bird. (Gooch farm)

March 24

Berkeley, Alameda Co., Calif.

721. ♀ Zonotrichia leucophrys 24.6 gm. ova small ovary 5 mm. Coll. F.A. Pitelka.

March 26

722. ♀ Zonotrichia leucophrys 24.5 gm. ova small very fat coll. F.A. Pitelka

723. ♂ " " 36.2 gm. tes. 3+1½ mm. " extremely fat!

~~724. not prepared 31.9 gm "~~

~~725. "not prepared: 4 gm. "~~

Nos. not used.

Banks 1960

Catalog

April 6, 1960

Albany, sea level, Alameda Co. Calif.

724. ♂ Limnodromus — coll. O.R. Medina, R. Holmes. tes. 6×2 very fat molting

725. ♂ Ereunetes mauri — tes. 2×1 mod. fat. little molt — coll. Holmes + Medina.

6 Lazy Drive, Orinda, Contra Costa Co. Calif.

April 10

726. ♂ Zonotrichia atricapilla — tes. 3×2 mm. - very fat. coll. R.L. Church.

San Pablo Marsh, Richmond, Contra Costa Co. Calif.

April 19

727. ♂ Melospiza melodia — tes. 10×6 mm. no fat — mouse trapped by G.F. Fisler 18.1 gm.

728. ♀ " " — lgst. ova 1.5 mm no brood patch - had not laid. — m. trapped GFF. 17.1 gm.

729. ♂ Passerculus sandwichensis — tes. 10 mm. 18.0 Gm. — m. trapped GFF.

730. ♀ " " — brood patch 17.5 Gm. — M. trapped, GFF.

April 20

731. ♀ Melospiza melodia — 17.5 Gm. brood patch — m. trapped by GFF.

Inspiration Point, Contra Costa Co. Calif.

April 23

732. ♂ Zonotrichia leucophrys — 29.5 gm. tes. 9×7 mm.

April 24

Brooks Island, Alameda Co. Calif. — coll. Dennis Galloway.

733. ♂ Zonotrichia leucophrys — 29.2 gm tes. 10×7 mm.

April 25

2.9 mi. S, 3.7 mi. E Stewarts Point, sea level, Sonoma Co. Calif.

734. ♂ Zonotrichia leucophrys — 30.0 gm. tes. 9×6 slight fat 17

735. ♂ " " — 30.4 gm. tes. large (shot) 2

736. ♂ " " — 31.7 gm. tes. 11×6 slight fat 14

737. ♂ " " — 32.1 gm. testes large 4

738. ♂ " " — 29.9 gm. tes. 9×6 6

739. ♀ " " — 29.3 gm. Brood patch - oviduct enlarged 8

Banks
1960

Catalog

April 25

2.9 mi. S, 3.7 mi. E Stewart's Point, sea level, Sonoma Co., Calif.

740 ♂ Zonotrichia leucophrys 28.4 gm. tes. 9×5 3
741 ♂ " " 31.2 gm. tes. 10 mm. 1
742 ♂ " " 32.9 gm. tes. 11×6 5
743 ♂ " " 30.6 gm. tes. 10×7 9
744 ♂ " " 30.5 gm. tes. 10×6 13
745 ♀ " " 30.0 gm. broodpatch 10
746 ♂ " " 31.0 gm. tes. 10×6 12
747 ♂ " " 30.2 gm. tes. 11×6 15
748 ♂ " " 30.9 gm. tes. 10×6 slight fat 16
749 ♀ " " 29.6 gm. ova 5 mm. early broodpatch mate of 738. 7
750 ♀ " " 32.9 gm. early broodpatch egg in oviduct 11

1 mi. E Cordelia, Solano Co. Calif.

751. ♂ Lanius ludovicianus 51.6 gm. tes. 10×6 stomach: insects. pick-up by G.F. Fisler

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May 9

752 ♀ Agelaius tricolor coll. G. Orians – captive a few days, injected May 9 w/nembutal. Recovered. 39.0 gm. broodpatch

Beartooth Plateau, 25 mi. SW Red Lodge, Shoshone Co., Wyo. 10,100 ft.

June 16, 1958

parts only saved on 3×5 cards:
753. ♀ Zonotrichia leucophrys (coll. R.S. Hoffman 610) ~~30.5 gm.~~ broodpatch
754. ♀ " " (609) ~~27.1 gm.~~ " "

June 15, 1958

755 ♀ " " (" 546)
756 ♀ " " (" 557) egg in oviduct
757 ♀? " " (" 558) not saved.

July 7, 1959

758. ♀ " " (coll. Hoffman?) egg in oviduct Broodpatch
759. ♀ " " (" " ") well developed ova Broodpatch

Banks
1960

Catalog

Siyeh Pass, Glacier National Park, 7000 ft., Glacier Co., Montana

Aug. 2, 1958

760. ♂? Zonotrichia leucophrys (coll. P.C.S. 183)

Big Baldy, 5 mi. NNE Neihart, 8600 ft., Little Belt Mts., Judith Basin Co., Mont.

June 19, 1958

761. ♂ Zonotrichia leucophrys (coll. R.S. Hoffman 668) tes. lge.

Head of Big Timber Creek, 10000 ft., Crazy Mts., Sweetgrass Co., Mont.

July 1, 1958

partly juv. ♂ 762. ♂ Zonotrichia leucophrys (coll. P.C.S. 38)

Big Snowy Peak, Big Snowy Mts., 8700 ft., Fergus Co., Mont.

July 10, 1958

763. ♀ Zonotrichia leucophrys (coll. R. D. Taber 1888) broodpatch
764. ♀ " " (" 1891) "
765. ♀ " " (" 1887)
766. ♂ " " (" 1893)

July 11, 1958

767. ♀ " " (coll. P.C.S. 114)
768. ♀ " " (" 115)
769. ♂ " " (" 116)

June 1, 1960

San Pablo Salt Marsh, Richmond, 0± ft., Contra Costa Co., Calif.

770. ♀ Reithrodontomys r. raviventris ~~coll. D.F. Fisler~~ 136-64-27-15 12.1 gm.

Catalog

Dean's Meadow, 6400ft., Lassen Co. Calif.

June 6

771. Bufo boreas
772. " "

June 7

773. ♂ Troglodytes aedon 9.8gm. tes. 6x4 skull 2-layered in occipital region only.
774. ♂ Spizella breweri 10.9gm. tes. 8x4mm
775. ♀ Citellus 265-38-42-18 300 gm. {prob. lactating. nipples large
776. ♂ Sitta pygmea 10.9 gm. tes. 5x3
777. ♂ Chlorura chlorura 28.4gm. tes. 11x7

2mi. N, 2mi. E Mahogany Peak, 5000ft., Lassen Co. Calif.

778. Sceloporus graciosus
779. " "

1mi. N, 2½mi. E Mahogany Peak, 5050ft., Lassen Co. Calif.

June 8

780. ♂ Empidonax hammondii 13.9gm. tes. 7x4 [illegible] broodpatch [illegible]
781. ♀ " " 14.4gm. 1 collapsed follicle broodpatch - ova 5mm
782. ♀ " " 14.8 gm. oviduct enlarged skull 2-layer.

June 9

6½mi. S, 4¾mi. W Susanville, 6400±ft. Lassen Co. Calif.

783. ♀ Peromyscus maniculatus 142-61-19-19 15.7gm.

Bogard Campground, 5600±ft. Lassen Co. Calif.

784. Hyla
785. "

786. ♂ Empidonax sp. 10.0gm. tes 6x4mm. Skull 2 layer
787. ♀ " hammondii 14.5gm. broodpatch ova 7mm. " "

~~788.~~

~~789.~~

Banks
1960

Catalog

Bogard Campground, 5600± ft. Lassen Co., Calif.

June 10

788. ♂ Iridoprocne bicolor 19.5 gm. tes. 10×7 mm.
789. ♂ Stellula calliope 2.7 gm. tes. 2 mm.
790. ♀ Empidonax 15.4 gm. laying; broodpatch.
791. ♀ Piranga ludoviciana 37.1 gm. egg in oviduct
792. Hyla

June 11

793. ♀ Vireo gilvus ova 7 mm. 14.0 Gm. broodpatch. mate of 794.
794. ♂ " " tes. 7×4 11.3 gm.
795. ♀ Empidonax 11.1 Gm. ova 5 mm. broodpatch.

Sand Flat, 6800± ft. Mt. Shasta, Siskiyou Co., Calif.

June 12

796. ♂ Peromyscus maniculatus 148-63-20-16 16.5 gm. tes. 9 mm.
797. ♀ " " 153-69-19-18 13.7 gm. no emb.
798. ♀ " " 145-64-18-18 14.7 gm. no emb.
799. ♂ Certhia familiaris 7.8 gm. tes. 6 mm.
~~799~~ 800. ♂ ~~Ded~~ Dendrocopos albolarvatus tes. 10 mm.
~~800~~ 801. ♂ Sitta canadensis 10.4 gm. tes. 5 mm.
802. ♀ " " 10.6 gm. ova to 3 mm. early broodpatch.
803. ♂ Perisoreus canadensis 61.1 gm. tes. 3 mm.
804. Bufo boreas
805 ♀ Perisoreus canadensis 57.7 gm. old brood patch ovary small

June 13

806. ♂ Peromyscus maniculatus 168-78-20-18 17.0 gm. tes. 9 mm.
807. ♀ Eutamias 201-85-31-16 52.4 gm. 4 20mm embryos.
808. ♂ Carpodacus 26.9 gm. tes. 8×7 mm.
809. ♂ Hesperiphona vespertina 55.8 gm. tes. 12 mm. slightly fat

Banks
1960

Catalog

Sand Flat, 6800± ft., Mt. Shasta, Siskiyou Co., Calif.

June 13

810. Bufo

Kelsay River, 4150± ft., Douglas Co., Oregon

June 15

811. Rana

W end Crescent Lake, 4850± ft., Klamath Co., Ore.

June 16

812. ♂ Peromyscus maniculatus 157-66-20-18 20.3 gm.
813. ♂ Nucifraga columbiana 138 gm. tes. 2 mm. skull 1 layer.

1 mi W Crescent Lake, 5000± ft., Klamath Co., Ore.

814. ♀ Junco oreganus. 18.0 gm. incubating.

June 17

Todd Lake, 19 mi W, 1½ mi S Bend, 6100± ft., Deschutes Co., Oregon

815. ♂? Spinus pinus 11.9 gm. skull unossified.
816. ♂ Sitta canadensis 10.0 gm. tes. 5 mm.
817. ♂ Parus gambeli 11.5 gm. tes. 7 mm.
818. ♀ Regulus calendula 7.3 gm. egg in oviduct
819. ♀ Piranga ludoviciana 33.9 gm.

Elk Lake, 4900± ft., Deschutes Co., Oregon

820. Bufo boreas
821. ♂? Perisoreus canadensis 58.9 gm. imm.
822. ♂ Hylocichla guttata tes. 10 mm.

Sparks Lake, 4530± ft., Deschutes Co., Ore.

June 18

823. ♀ Iridoprocne bicolor 17.1 gm. ova 2 mm.

Banks
1960

June 19

Wire Meadow, 4½ mi S., 1½ mi E Elk Lake, Deschutes Co., Ore.

824. ♂ Junco oreganus 18.7 gm. tes. 9 mm.

825. ♀ Euphagus cyanocephalus 67.6 gm. slight fat oviduct enlarged ova 5 mm. broodpatch

N. Santiam River at Marion Creek, 2400± ft. Linn Co., Oregon

June 20

826. ♂ Eutamias 247-101-37-22 85.1 gm. tes. small

827. ♀ Peromyscus maniculatus 150-71-19-17 14.3 gm. no emb.

828. ♀ " " 188-95-22-20 22.3 gm. no emb. nipples enlarged

N. Santiam River at Bugaboo Creek, 2500± ft. Linn Co., Oregon

829. ♀ Melospiza melodia 23.8 gm. broodpatch

June 21

830. ♂ Passerella iliaca 27.4 gm. testes large (shot) cloacal protuberance.

2½ mi. S, 5½ mi E Detroit, 2000± ft. Marion Co., Oregon

831. ♂ Zonotrichia leucophrys 26.6 gm. tes. 10 mm. slight fat.

832. ♂ " " 24.6 gm. tes. 9 mm.

833. ♂ " " ~~[illegible]~~ 25.9 gm. tes. 9 mm. } mates

834. ♀ " " 25.5 gm. broodpatch }

June 22

835. ♂ " " 23.8 gm. tes. 10 mm.

836. ♀ " " 22.6 gm. broodpatch. } mates

837. ♂ " " }

N. Santiam River at Marion Creek, 2400± ft. Linn Co., Ore.

838. ♂ Peromyscus maniculatus 157-78-22-19 14.3 gm.

June 23.

839. ♀ Peromyscus maniculatus 176-83-21-17 24.2 gm. lactating no emb.

June 23

2½ mi. S, 5½ mi. E Detroit, 2000± ft., Marion Co., Oregon

840 ♀ Zonotrichia leucophrys 24.2 gm. broodpatch
841 ♂ " " 25.5 gm. tes. 10 mm.
842 ♀ " " 22.8 gm. brood patch

July 26

College Ave. + Chabot Rd., (6127 Chabot) Oakland, Alameda Co., Calif.

843 ♂ Zonotrichia leucophrys 26.2 gm. tes. 10×6 mm.
844 ♂ " " 24.8 gm. tes. 11×5 mm.

Aug 9

San Pablo Salt Marsh, sea level, Richmond, Contra Costa Co. Calif.

845 ♀ Reithrodontomys r. raviventris 9.3 gm. no emb. 136-65-16-14 } coll. by George F. Fisler
846 ♂ " " 9.3 gm. tes. 6×3 mm. 142-73-~~17~~ 17-15

Oct. 16

Grocock Ranch, W of Santa Rosa, Sonoma Co., Calif.

847 ♂ Zonotrichia atricapilla 30.6 gm. ad. sh. tes 1 mm.

Aptos, Santa Cruz Co., Calif. — Ca. Nov 5, 1960

905 ♂ Thryomanes bewickii 1mm sk. molting pick-up Dorothy B. Hunt

Nov. 12, 1960

Berkeley, Alameda Co., Calif.

906 ♂? Ereunetes mauri 37.1 gm. very fat. coll R.T. Holmes.

907. ♀ Erolia alpina 64.9 gm. very fat. "

Nov. 27, 1960

908 ♀ Zonotrichia albicollis 23.7 gm. moderate fat. 1mm. sk. coll. F.A. Pitelka.

Banks, R.C.

1960

Misc. U.S. Localities

Journal

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6 Mar. Pacific Grove - Carmel, sea level, Monterey Co. Calif. - Along the 17-mile drive in mid-late afternoon. Near Pt. Joe spotted a Western Grebe floating in a tide pool. Neck was bad, but saved the skull. Saw many birds along the early part of the drive, as far as Seal Rocks. A few on the following list (*) seen at picnic grove in Pacific Grove. Scrub Jay*, Chestnut-Backed Chickadee*, California Woodpecker*, Pied-billed Grebe, Surf Scoter, Cormorant (carrying seaweed - nesting?), Guillemot, Western Gull, Western Grebe, Brewer Blackbird, Redwing, Sparrow Hawk, White-crowned sparrow, Horned Grebe, Black Turnstone, Spotted Sandpiper, & Goldeneye. Also saw many seals and one, perhaps 2, Sea Otter, the latter near Pt. Joe.

25 Mar. Strawberry Canyon, Alameda Co., Calif. Set traps for mice for Zool. 113. In fields beyond Poultry Husbandry, caught 8 Reithrodontomys megalotis, 7 Microtus californicus (both including pregnant ♀♀). Saw 4 deer. In pines, lost 2 traps to wood rats. In woods, near stream, got 1 Peromyscus californicus and 2 P. truei. Also 1 Hermit thrush.

26 Mar. Today had 9 Reithrodontomys, 1 Microtus, 3 Fox Sparrows, 1 Wren-tit. Had moved the traps a little, not much.

25 April Salt Point, sea level, Sonoma Co., Calif.

Left Groverch farm, nr. Santa Rosa, at 6 A.M., reached coast (Rt. 1) at mouth of Russian River about 7. Proceeded north, but because of detour thru hills around Ft. Ross + Sea View, lost track of exact locality. Most of the coast line here is steep + rocky. Just behind the shore, a strip of grassland, usually sheep grazed, extends ¼–1 mile. Little or no brush, even along fences. Other places, pines go down almost to water. White-crowned Sparrows are spotty in distribution all along. Have seen these species today: Amer. Goldfinch, Great Blue Heron, Western Gull, Song Sparrow, Redwing, Raven, Barn Swallow, (at this locality) Vaux Swift, Osprey, Western Bluebird, House Finch, Orange-crowned Warbler. Weather — miserable. Fairly cold, overcast, light rain — drizzling all morning so far. Above written at 8:45 am. Also saw Turkey Vulture. Now, at 9:15, raining fairly hard.

2.9 mi S, 3.7 mi E Stewarts Point, sea level, Sonoma Co., Calif.

Found good collecting locality here, started collecting about 10 a.m. Worked till 2, then again 4:30 till 7 p.m. Took a total of 17 birds. The area worked was mainly on the west side of Rt. 1, about .9 mi long × ¼ mile wide. It is an open stand of Pine (Pinus muricata) about 20 ft. tall, with scattered larger trees. Openings are irregular, up to several hundred square yards. These openings are covered with bunch grass, Occassionally,

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2.9 mi S, 3.7 mi E, Stewart's Point, sea level, Sonoma Co., Calif.

esp. at S end of strip, areas of grass have been grazed heavily by sheep, + form a lawn-like patches. Several deep (12') gullies have worked up from the coast - these are filled with dense brush - willow, etc. There is no Baccharis or similar brush, as in Marin Co., e.g.. The day was overcast, with drizzles + mist much of the time. Sun shone briefly 3 or 4 times all day. Species seen in this locality: Western Gull along shore, Allen Hummingbird, Pileolated Warbler, Orange-crowned Warbler, Song Sparrow, Western Flycatcher, Osprey, California Quail, Wren-tit, Flicker, Steller Jay, Western Bluebird, Chestnut-backed Chickadee, Belted Kingfisher, Cedar Waxwing (flock in Eucalyptus) Hermit Thrush, Vaux Swift, Barn Swallow, Turkey Vulture, Raven, Brewer Blackbird, heard 1 Ruby-crowned Kinglet. This ranch belongs to people named Osborne, distant relatives of ~~Jon~~ Hagadorn, invertebrate student here. Saw several deer.

3 road miles E Stewart's Point, Sonoma Co., Calif.

Went here to look for Osprey nests. No activity. Area was logged 5 years ago. Brushy redwood forest.

Distance from BM 109 (Stewart's Point quad, 7½", 1944) to BM 140 (Plantation quad, 7½", 1943). Latter point is in area worked.

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June 6-7 Dean's Meadow 6400 ft., Lassen Co., Calif. 2 mi. Eagle Lake
Left Berkeley 8:50 a.m., June 6, arrived here about 6:15 p.m., June 6, via Truckee, Loyalton, + Susanville. Came into the area past Eagle Lake, which is NW of me slightly, the meadow + surroundings is a disappointment. The area has been heavily logged, and some slopes are almost denuded. Fire has also swept the area, and a large proportion of the remaining trees, all fairly small, are partly dead. There is a small lake at the E end of the meadow, a spring (with a small pond for cattle) at the W end. I camped at the W end. There are cattle on the meadow (they left during the night) and the whole area is grazed + dissected with logging roads. Not a pretty area now, but it must have been once. There is no brush in the meadow, nor anywhere else. Trees are mostly Yellow pine, a few White? fir, and a few aspens in the meadow. A large colony of ground squirrels, some Chickarees. Heard coyotes just as I went to bed. Walked around from 7:30-9:30 p.m., going to E, overlooking Willow Creek Valley + Eagle Lake, then back along ridge N of the meadow. To bed about 10, up at 6. Worked for 2½ hrs. to the West, about the same elevation. The slopes have been logged + burned, the only live trees are small, + there are many dead snags and lots of fallen logs + slash. Farther W, at the edge of the ridge, there is more timber, but nothing to brag about. It was

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→ Dani's Meadow, 6400 ft., Lassen Co., Calif.

June 7 still in the early A.M., but a strong S-SW wind has been blowing since about 10 am. It is now 3 pm. I have skinned the few things I got earlier, and soon will move camp. My map for this area is Fredonyer Peak Quad, 15 min., U.S.G.S., 1954.

Bird List:

Mallard
Killdeer
Mourning Dove
Nighthawk (C. minor)
Flicker
Yellow-bellied Sapsucker
Western Wood PeWee
Olive Sided Flycatcher
Mountain Chickadee
White-breasted Nuthatch
Robin
Ruby Crowned Kinglet
Brown-headed Cowbird
Western Tanager
Oregon Junco
Brewer's Sparrow
Tree Swallow
Bufflehead
Sparrow Hawk
Spotted Sandpiper
Gt. Horned Owl
Poor-will
Hairy Woodpecker
Whiteheaded Woodpecker
Hammond Flycatcher
Steller Jay
Pygmy Nuthatch
House Wren
Mountain Bluebird
Pileolated Warbler
Brewer Blackbird
Green-tailed Towhee
Chipping Sparrow
Fox Sparrow
Red-tailed Hawk.

Mammals: Citellus sp., Eutamias sp., Coyote, Chickaree,

Herps: - Bufo boreas, Sceloporus sp.

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June 7 Broke camp at Dean's Meadow about 4. Drove to edge of Willow Creek Valley, then back toward Wurrer's Upper Meadow. Several meadows along that road, but all heavily grazed and no brush. Collected 2 Sceloporus graciosus on that road. Am now at the unoccupied (at present) Fire Control Sta., about 2 mi E of Dean's Meadow, → and about 1 mi N, 2½ mi E Mahogany Peak. Same map. Elev. about 5080 ft. Late in p.m. It looked like a big storm coming, + I came here to have benefit of porches if it rained, but storm has passed on east, to the N of me. Birds very quiet all afternoon, however.

June 8 Got up shortly after 6, sun already high. Heard Horned Owls just before dawn, coyotes during the night. Worked the pine forest for 1½ hr, got 3 Empidonax, 1 Audubon Warbler. Trees here are small, 15-20 ft; an occasional larger one. Forest is much thicker than at Dean's Meadow; logging was much longer ago. There are signs of fire, but very old. Ground cover is sagebrush + mullen + grass (oat?); all low, very easy to get around. Empidonax much more common than above, Woodpeckers less so. Saw toads here last night, Sceloporus graciosus this morning. Saw Gray Squirrel, Golden-mantled Ground Squirrel, + the other ground squirrel. List of birds seen in the lowland localities yesterday + today on next page.

June 8 1 mi. N, 2½ mi. E Mahogany Peak, 5080 ft, Lassen Co. Calif.

Turkey Vulture	Sparrow Hawk
Killdeer	Morning Dove
Gt. Horned Owl	Booming Nighthawk
Poor-will	Flicker
Williamson Sapsucker	Empidonax - 2 species?
Western Wood Pewee	Steller Jay
Mountain Chickadee	Brown Creeper
House Wren	Robin
Pileolated Warbler	Audubon Warbler
Cowbird	Brewer Blackbird
Redwing	Western Meadowlark
Western Tanager	Starling ? see sp. acct.
Oregon Junco	Red Tailed Hawk

6½ mi. S, 4¾ mi. W Susanville, 6400± ft, Lassen Co. Calif.

From Susanville, I could see to the SE a range with a good bit of snow on top and lots of bare ground. After getting lost several times in the valley, I found a road over Diamond Mt. - road eventually goes to Westwood. Finally established a camp about 7 pm, about ¼ mi. down (E) from the summit. Forest here is White Spruce and Yellow Pine, with many good sized trees and good replacement in the clearings. On top there is an extensive bare area, apparently natural. This is covered by Mullen and grass, rather sparse. On the W side of the highest part there is some sage brush. There are patches of snow in gullies on the N facing slopes.

June 8 6½ mi S, 4¾ mi W Susanville, 6400± ft., Lassen Co., Calif.

On the S or SE facing slopes there are some springs or seeps, and here there is some extensive grass. At the heads of these areas there are large clumps of Alder and Willow. This is the closest thing to White-crowned Sparrow habitat I've seen yet, but there aren't any. At sunset I stood on the highest point available, could see both Lassen + Shasta. Set my [illegible] mouse traps at camp, as I have done each night, caught 1 Peromyscus. There are lots of mole workings, chipmunks + ground squirrel holes. Lots of deer in area. In the following bird list, species seen only on top are marked *.

	Killdeer * (heard after dark)
Flicker	Hammond Flycatcher
Olive-Sided Flycatcher	Steller Jay
Mountain Chickadee	White Breasted Nuthatch
House Wren	Robin
Hermit Thrush	Mt. Bluebird
Ruby Crowned Kinglet	Pileolated Warbler *
Cowbird	Western Tanager
Cassin Finch	Lazuli Bunting * 1 pr.
Oregon Junco	Chipping Sparrow
Fox Sparrow	

June 9 In general, there are not many birds, and those here are very wild. Broke camp at 10, left area at 10:30 - back to Susanville and then west.

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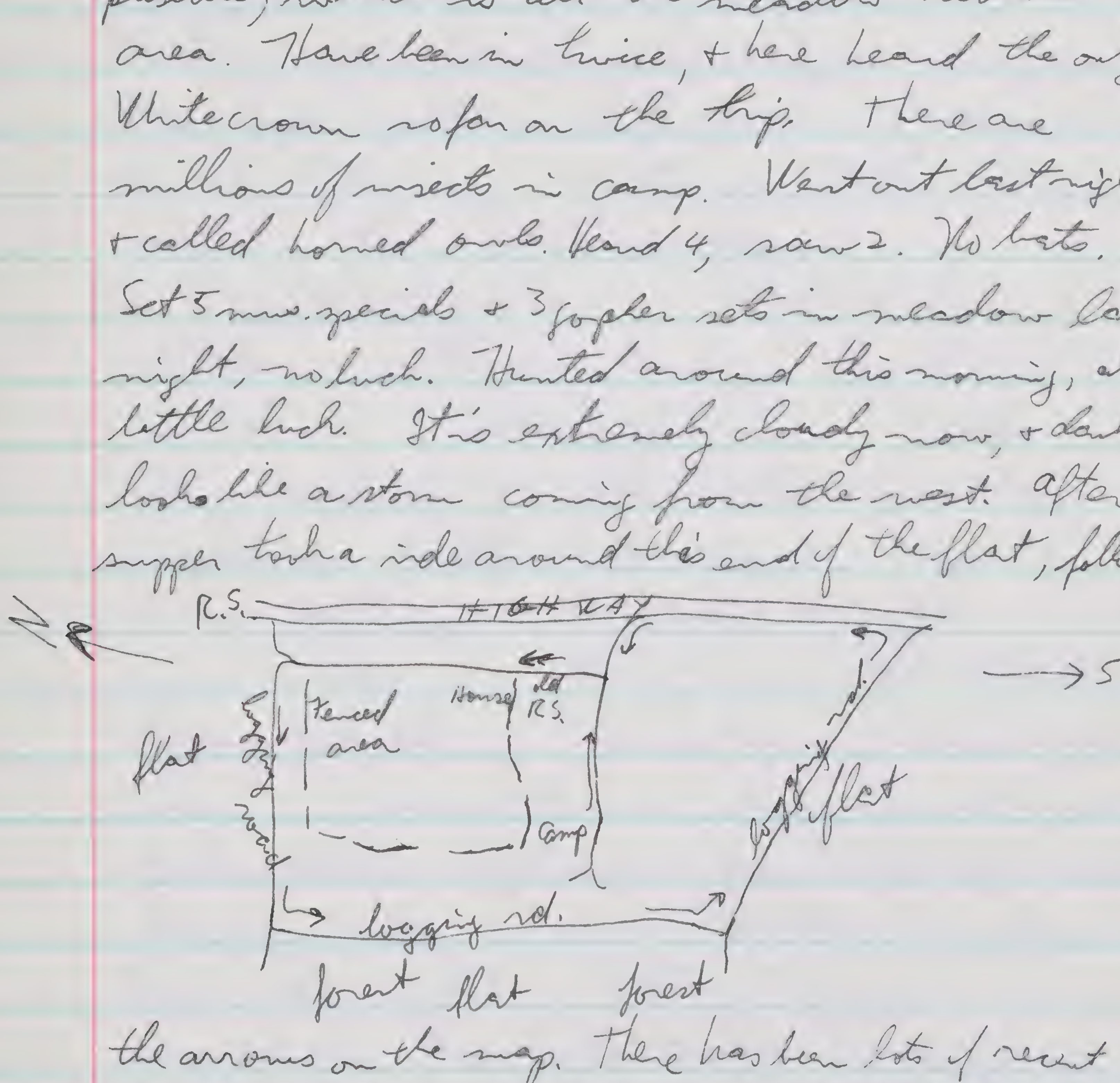
June 9 Hog Flat Reservoir, 5450±ft. Lassen Co. Calif. - The area around here is all grazed. The marshy ponds a mile or so SW of the Reservoir have willows in them, and there are Redwings, Yellow Warblers, + Song Sparrows. The forest is mostly Yellow Pine, second growth.

Bogard Campground, 5600±ft., Lassen Co., Calif. Arrived here and set up camp in mid afternoon. This is the area referred to as the meadows around Bogard Ranger Station in Grinnell, Dixon, + Linsdale's Lassen Section. The ranger station has moved about 1 mile down (N) the road. Near the old sta. is a cow camp - small house, corrals, loading chutes, etc. Family lives there, runs horses + a few cows in nearby pasture. There is a really extensive flat here - probably 1×2 mi. It is surrounded by by pine forest, small clumps of trees in the flat. A good stream (Pine Creek) runs through, with trout, from W to E, but may not make it clear through. Near the stream, esp. the NW part of the flat, it is very green and lush. Good grass, willows along the stream. This area is mostly fenced off + used for pasture. Although there are green patches in the rest of the flat, most of it is sage brush. Soil is very red. A road runs through the flat, roughly N-S. The campground is at the W edge of the flat, just in the forest. Trees are mostly pine, but a good number of poplars right in camp and along the stream.

Bogard Campground, 5600±ft, Lassen Co., Calif.

June 9 There are a lot of birds in the area — with the variety of habitats there is a good variety of species.

June 10 The people will not permit me to go into their pasture, which is all the meadow-willow area. Have been in twice, & here heard the only Whitecrown so far on the trip. There are millions of insects in camp. Went out last night & called horned owls. Heard 4, saw 2. No bats. Set 5 mus. specials & 3 gopher sets in meadow last night, no luck. Hunted around this morning, also little luck. It's extremely cloudy now, & dark, looks like a storm coming from the west. After supper took a ride around this end of the flat, following



the arrows on the map. There has been lots of recent clearing near the roads, & there is a stack of water pipe near the NW corner of the map, as tho some project were under way. The sage, with occasional grassy areas is more extensive than I originally thought. Set 5 mouse traps in sage near camp. Overcast till dark, no moon.

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June 11 Bogard Campground, 5600± ft Lassen Co. Calif., Clear today
Nothing in my traps. Walked this morning thru the woods to the W, back along the stream. Little activity in the forest - there is more in camp. Now just after noon, and I am ready to move on.
Following species observed in this camp or nearby:
Herps: Hyla regilla Bufo boreas Thamnophis sp.
Mammals: Eutamias sp. Citellus sp. Citellus lateralis
Coyote Deer Chickaree Marmot
Birds: Red tailed Hawk (2) Mallard (pr.)
Killdeer Mourning Dove Horned Owl (4)
Nighthawk Belted Kingfisher? Flicker
Hairy Woodpecker Yellow Bellied Sapsucker
Empidonax traillii (1), hammondii, & sp.
Western Wood PeWee Olive Sided Flycatcher
Tree Swallow Steller Jay Mt. Chickadee
Pygmy Nuthatch Brown Creeper House Wren
Robin Hermit Thrush Ruby Crowned Kinglet
Yellow Warbler Audubon Warbler Pileolated Warbler
Warbling Vireo Brewer Blackbird Cowbird
Western Meadowlark Western Tanager,
Cassin Finch, Green tailed Towhee, Oregon Junco,
Chipping Sparrow, Brewer Sparrow, White-Crowned
Sparrow, Fox Sparrow, Song Sparrow, Turkey Vulture
Drove on west, past the north side of Lassen Park.
Drove into Butte Creek area, toward Butte Lake, but found no suitable areas. On to Hat Creek Valley, where I stopped for 1½ hr. at the ranch

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June 11 Hat Creek Valley, Shasta Co. Calif. — of W. B. Smith, elev. 3560 ft. Along the creek were large growths of alder, willow, + cottonwood. Nice looking area, but no Zonotrichia. Mrs. Smith is a sort of bird watcher, + I talked to her. She sees White-crowns in winter. Here I saw Crow, Brewer Blackbird, Song Sparrow, Yellow Warbler, Western Meadowlark, Robin, Western Bluebird, Warbling Vireo, + Amer. Goldfinch. There was an ouzel (dipper) nest over the stream, right in their yard. Drove on to McCloud, + Mt. Shasta city, then up to the ski bowl, Finally found the road to Sand Flat + Panther Meadow. Road is blocked by down trees at Sand Flat, where I made camp at 8:30. Set 5 mouse traps.

June 12 Sand Flat, 6800 ± ft., Mt. Shasta, Siskiyou Co., Calif. Am just on edge of Shasta quad, USGS, 1954. Am on SW slope of Mt. Shasta. Had 3 Peromyscus in my traps this morning. Mosquitoes + flies are bad. Got a late start this morning, since I had to finish setting up camp. Went out in the woods nearby. About 9, all was quiet - I sat on a log and gave pygmy owl calls. Soon Mt. Chickadees, Red-breasted Nuthatch, Western tanager, Br. Creeper, Audubon Warbler, and Carpodacus sp. were in the trees near me. Also juncos. Didn't get a lot done today. The forest here is fairly open, very tall trees - 100 ft. Many of the birds stay high in the tops of them. Giving P. owl calls is the best way to get them, + then only a few species come.

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June 13 Sand Flat, 6800± ft, Mt. Shasta, Siskiyou Co. Calif. — Got up early to hike the 3 miles to Panther Meadow. First checked the traps. Had taken 1 Peromyscus out last night, within ½ hr. after setting. Now had one more in the tent, where I had 2 traps guarding supplies. Left traps set. About ½ mi., the dirt road meets the black-top road to the ski bowl. I followed this, finally found Panther Meadow. It is on that main road, about a mile below the ski bowl, & I had passed it Sat. evening. The only sign is 100 yds. from the road, facing away! It is not much of a meadow — just a flat. Panther Creek starts there, from meltwater. And it is still under 3 ft. of snow. The topo sheet is wrong regarding the position of Sand Flat and the road. Returned to camp through the forest. Didn't see much. Had a chipmunk in my traps. Shot a Carpodacus and an Evening Grosbeak in camp. In p.m., walked over the ridge just across the road (W). There is another large sand flat, completely barren. There is some large Arctostaphylos at one end, by the edge. The forest all around here is mostly Red Fir, very tall trees. Some has been logged recently, but relatively little, & nothing close to camp. There are frequent openings, with low Arctostaphylos or no cover. Soil is all sandy or rocky. Lots of fallen trees and dead snags. There is nothing moving at night — no owls, bats, or nighthawks — it gets pretty cold. Lots of mole workings in the flats, but nothing that looks like gopher. Began to break camp, will leave in the morning. I am convinced that

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June 13 Sand Flat, 6800± ft, Mt. Shasta, Siskiyou Co., Calif.
There are no White-crowned Sparrows on this part of Mt.
June 14 Shasta. Broke camp and left early this morning.

Birds seen here: Turkey Vulture — Red Tailed Hawk
Goshawk? — Hummingbird sp. ♀
White headed Woodpecker — Hairy Woodpecker
Flicker — Mourning Dove
Western Wood Pe Wee — Olive sided Flycatcher
Gray Jay — Steller Jay
Mt. Chickadee — Red Breasted Nuthatch
Brown Creeper — Robin
Mt. Bluebird — Townsend Solitaire
Hermit Thrush — Ruby Crowned Kinglet
Audubon Warbler — Western Tanager
Evening Grosbeak — _Carpodacus_ sp.
Oregon Junco — Fox Sparrow.

Mammals: Chickaree, Chipmunk, Golden mantled Ground Squirrel, _Peromyscus_. Herps: _Bufo boreas_.

Last night just after I went to bed, heard a scraping on the bark of a nearby tree. Shined my light, got just a glimpse of eye shine. A flying squirrel?

This day was a complete waste. Drove down to Mt. Shasta (city), did some chores + had a grease job. Had to replace 2 badly cut tires. Went back on rt. 89 to McCloud, took the road toward Mud Creek Dam. Couldn't make it — went on to the Military Pass Road. I've never seen two such dusty roads! They were hauling logs over Military Pass Road, and it was in bad shape. But I

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June 14 Mt. Shasta area – did O.K. until I came to a ford, which was too deep. Backtracked to McCloud, Mt. Shasta, and on to Bray, Siskiyou Co., off rt. 97, N of Weed. Passed Grass Lake, where I saw Yellow-headed Blackbirds and, I think, Black Tern. Bray is 7 mi E of rt. 97 – 7 mi. of washboard road. This entire valley is a mixture of marsh, meadow, sage brush, and pine. It is odd, there will be marsh or lush pasture ~~on~~ one side of the road, sage brush on the other. All the meadow land is grazed, and posted. There is a good sized stream – perhaps several – in this valley, with willows. Saw the following species: Redwing, Yellowheaded Blackbird, Killdeer, Wilson Phalarope, Black-billed Magpie, Cliff Swallow, Song Sparrow, Wilson Snipe, Yellow Warbler, Robin. I stopped often and listened carefully for White-crowned Sparrows, but got no indication of their presence. It may be too wet, or too grazed, or too low. The situation here is similar to that at Bogard – the birds may have been here in earlier years, and may be here now in reduced numbers or only in certain years. ~~Southern~~ Southern Pacific RR. runs through Bray. About 7 it got very dark + threatening, with big storm clouds coming from the W. Made camp in a gravel pit off rt. 97, S of the turnoff to Bray. What I could see of Mt. Shasta was enshrouded with clouds.

June 15 No rain last night, but is still overcast this a.m., but clearing. Left for Diamond Lake, Oregon.

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June 15 Diamond Lake, 5200±ft., Douglas Co., Oregon – Diamond Lake quad, USGS, ed. of 1917. 30'. Arrived in the area about 11 a.m. The lake is much commercialized, fishing, store, camping, etc., but there is a lot of wild country just off the road. Looks like good camping area. Apparently rained last night. There is a marshy area at the S end of the lake. It is very wet, with abundant willow scrub. I walked around the area for an hour, but no sign of White-crowns. It looks good, but must be too low. In this area heard or saw: Hammond Flycatcher, Western Wood PeWee, Robin, Mt. Chickadee, Ruby Crowned Kinglet, Savannah Sparrow, Spotted Sandpiper, Long Billed Marsh Wren, Brown headed Cowbird, Osprey (over Lake). Tried to drive the dirt road to Crescent Lake, but got only as far as Kelsey River, 4150±ft., before a mud hole stopped me. Picked up one Rana here. Returned to Diamond Lake, back out to Rt. 97, to rt. 58, and to west end of Crescent Lake, 4850±ft., Klamath Co., Oregon, where I made camp. Tried to drive to Summit Lake, which is 5550±ft., but the road is not open. Altho White-crowns have been reported from here, it is not good country. Pines extend nearly to the water's edge, and the entire country is forested. Set my 5 traps in a little area of grass + willow near the lake. Took a walk about dusk, all was quiet. Set my watch back, so am on standard time.

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June 16 Crescent Lake, 4850±ft., Klamath Co., Ore. - Got up at 4:30, just getting light. Had 1 Peromyscus in a trap. Hunted up the road to Summit Lake, from 5 ~~ ~~ till 8. The forest is almost barren! For the first hour + a half, saw only 3 birds, heard a few others. Very overcast, and got rather windy. Most of the trip back was in a drizzle. Finally shot a ♀ junco + one of 2 Clark Nutcrackers I saw, these nearly back to camp. It was overcast all morning, clearing occasionally, the sun quite hot when it came out. It sprinkled off and on, showering rather hard once. Broke camp at noon. Nothing new in the bird line here, except Nutcracker. Found Solitaire nest, + junco nest. Tree swallows nesting in the camp. Pine Siskin in camp just before I left.
Drove to Crescent, then on rt. 97 to Bend. At Bend went west on Century Drive. Made camp at Elk Lake, just 1 mi S of my map, Three Sisters Quad, USGS, 1932. All roads off the Century Drive are closed, and this is the only camp ground open. It is a very nice camp, best on the trip. It is very cold this evening - coldest so far.
Todd Lake, 19 mi. W, 1½ mi. S Bend, 6100±ft. Deschutes Co., Oregon.
Drove to the junction of the road to Sisters, and walked around the edge of the meadow. Then walked up the road, past Todd Lake. Birds are scarce, only a few species seen. There is extensive meadow at the junction of this road and Century Drive, and north

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June 17 Todd Lake, 19 mi. W, 1½ mi. S Bend, 6100± ft., Deschutes Co., Oregon.

along this road as far as I want. However, most of the country is under up to 4 ft. of snow. I doubt if this will be open for 2 weeks. The stream is running full, from meltwater, and there are places where the ground is bare, esp. around tree bases and clumps. There are small willows along the stream, and rather thick evergreen at the meadow edge, but not enough open country yet for White-crowns. I get the impression, however, that it would be suitable habitat. Willows are all small, not yet in leaf. It resembles the situation last July 1-4 at Hart's Pass, Wash., except there is more snow here. Saw ~~2~~ Mt. Chickadees + Chipping Sparrows in copulation (not together). Pine Siskins are in flocks of 6 or 8. mileage from USFS map.

Elk Lake, 4900± ft, Deschutes Co., Oregon - About 4 p.m. took a walk due W of the campground, which is on the W side of the lake. It was very quiet. Saw a family of gray jays. Pygmy Owl calls attracted chickadees + nuthatches, and a hermit thrush, which I collected. A pygmy owl answered from a long ways off and finally came in (5:30 p.m.) but I didn't get it. This is forest land, perhaps 100 ft. above the lake. Pinus contorta dominates down low, but just a bit higher, there are mostly hemlock. Set 5 mouse traps in grassy wet area at edge of lake, and caught a toad while setting them. Will put up birds tomorrow. //

June 18 Nothing in traps.

June 18 Elk Lake, 4900± ft., Deschutes Co., Oregon — Hunted this morning around the edges of Sparks Lake, 4538 ft., and the meadows there. Saw very little and collected only a Tree Swallow. In the afternoon, I walked to a place called Island Meadows, due W of Elk Lake about 2½ miles. There is a trail starting opposite the road to the lodge. The trail is hard to follow, since stretches of it are covered with snow, drifts hip-high. I lost the trail finally, and went the last third or so of a mile by following the sound of a chorus of Bufo. The meadow was instead a lake at the moment, with water 3 or 4 ft. deep over it, and extending into the woods around. Got lost again on the return trip. Round trip took 3½ hrs., but if trail was clear all the way, probably a 2-2½ hr. trip. Very little bird life in the forest. Saw only Chickadees, Nuthatches, Siskins, and Hermit Thrush. By far the most bird activity is right in camp. In late afternoon it began to cloud up in west, get cool + windy. Now it is completely overcast. Relocated my traps in the little marsh. Some were sprung and robbed during the day, I suspect Golden Mantled Ground Squirrel.

June 19 Wire Meadow, 4½ mi. S, 1½ mi. E Elk Lake, , Deschutes Co., Ore. Hunted completely around the edges of this meadow, now under about 4" of water, without seeing much of note. The very lush meadow is adjacent to Big Lava Lake, and part of it may be always marshy. Saw Red Crossbills, but a car scared them before I could get a shot.

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June 19 Elk Lake, 4900± ft., Deschutes Co. Oregon — By the time I got back here from Vine Meadow it was completely overcast. A wind was blowing, so cold I had difficulty working. This situation continued throughout the afternoon. I drove to the Mt. Bachelor ski area, which is nothing, and tried to hike in the Todd Lake area, but it was too cold. About 4 p.m. it began to rain, then it sleeted, and now, at about 7 p.m. it is snowing. As wet as the ground is, the snow is sticking. Brrr.
My general impression of the entire area (Todd Lake to Big Lava Lake) is that it is poor bird country. Both numbers of species and number of individuals seems low for any area. This may be a result of the particular season — by all reports this is a late spring. I will annotate the following list of species for these reasons.

Killdeer — two seen at Sparks Lake.

Spotted Sandpiper — common near lakes and streams.

Mourning Dove — heard one from camp.

Pygmy Owl — one answered my call in forest W of Elk Lake. Birds all roused to these notes, so I assume they are common.

Nighthawk — 2 seen at camp at Elk Lake.

Hairy Woodpecker — 2 seen — Sparks Lake, and in camp. The lack of Picidae seems very strange.

Western Wood PeWee — Sparks Lake, Camp, and Vine Mdw. Few (1 or 2) each place. Not in forest, only open situations.

Olive-sided Flycatcher — saw 1 at Vine Meadow.

June 19 Elk Lake et vic., Deschutes Co., Oregon. Species list con't.
Tree Swallow - very noticeable, but not common, at lakes.
Gray Jay - a family V of Elk Lake
Raven - Sparks and Todd lakes - perhaps same individual.
Clark Nutcracker - pair seen at Sparks Lake.
Mountain Chickadee } common, everywhere responding to
Red Breasted Nuthatch } pygmy owl calls. Most abundant 2 species.
Robin - common in all meadows.
Mountain Bluebird - several pairs seen, along road only.
Townsend Solitaire - thought I heard notes of this, not sure.
Hermit Thrush - fairly common in deep forest; comes to P.O. notes.
Ruby Crowned Kinglet - common + widespread.
Golden Crowned Kinglet - seen at Todd Lake, 1 or a few.
Audubon Warbler - widespread, but not abundant.
Brewer Blackbird - small groups at meadows near lakes; most abundant at Wire Mdw.
Brown headed Cowbird - pairs or trios at Sparks and Elk lakes. Couldn't get one. Mix with Brewer Blackbirds. Heard also at Wire Meadow.
Western Tanager - Fairly common and widespread.
Carpodacus sp. - singing in camp, and at Wire Mdw.
Red Crossbill - 2 or 3 at Wire Meadow.
Pine Siskin - common + widespread; mostly in flocks.
Oregon Junco - fairly common, widespread.
Chipping Sparrow - " ", in edges.
Fox Sparrow - heard on several occasions.
Song Sparrow - one tentative near Todd Lake.

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June 19 Elk Lake area, Deschutes Co., Oregon. Species List, cont'd.

Golden-mantled Ground Squirrel - common.

Citellus sp. - in flat at Sparks Lake.

Deer - saw several, which seemed tame.

Bufo boreas - very common in all wet places.

Rana sp. - heard (?) at Island Meadow.

Chickaree - fairly common in forest.

June 20 Woke up this morning to find everything under ½ inch or more of snow. Rather chilly, but not as bad as last evening. Now at 8:15 have everything packed but the tent, and will do that and leave as soon as the snow melts from it.

N. Santiam River at Marion Creek, 2400±ft., Linn Co., Oregon

Made camp here in mid-afternoon at Marion Forks Forest Camp, adjacent to the state Trout Hatchery. Set my 4 mouse traps, and before long had a Eutamias in one. In late afternoon and again in evening visited an area 1.3 mi. S of here at the junction of Bugaboo Creek.

N. Santiam River at Bugaboo Creek, 2500±ft. Linn Co. Ore.

This is an area which has been logged. There is a good, if steep, gravel road up the steep W slope. It is this slope that has been logged. At the top of the hill, where the road enters deep forest, a sign says the area was logged + burned, 1945-1948. It is now second growth, trees to 15 ft. high, Incense cedar and Douglas Fir(?). There is a good sprinkling of riparian species, esp. on lower slope - alder + maple. The area is rather dense - rhododendrons + a Ceanothus in bloom.

June 21 N. Santiam River at Bugaboo Creek, 2500±ft., Linn Co., Ore.
Worked in this area for 3 hours, but collected only a Fox Sparrow. The area is on a very steep slope, and the vegetation is thick and difficult to get through, except on the remnants of old log roads. Hermit + Pileolated Warblers are abundant. Was surprised to see Alder (Traill's) Flycatcher. No sign of Zonotrichia.

N. Santiam River at Minto Creek, , Linn Co., Ore.
In p.m., walked through an area that must be where Ward Russell collected in 1941. He described it as recently logged and burned. It is now a good second growth stand; the trees are 20-25 ft. tall, and the log roads are grassy. There is still abundant evidence of the fire and logging operations, but much of it is concealed by the new growth. This area is flat.

2½ mi. S, 5½ mi. E Detroit, 2000±ft., Marion Co., Oregon.
I found White-crowned Sparrows here, in a rather recently logged and burned area, and have described the situation rather fully in my species account for Zonotrichia leucophrys. This is about 1 mile E from the small town of Idanha, on Oregon rt. 22. Drove on down the river as far as Detroit – I thought I heard a White crown sing there, but am not certain.

June 22 This is the only area between my camp at Marion Creek and Detroit with suitable habitat for Zonotrichia with the possible exception of the towns of Idanha + Detroit. Revisited the area this morning, collected 3

Banks
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June 22 2½ mi S, 5½ mi E Detroit, 2000± ft, Marion Co. Oregon.
more White-crowns.
In the afternoon I drove up the N Santiam River about 7 mi, looking for suitable habitat. There is none. I had come past this area Monday, but this second check made me more certain. I got probably to 3000 ft. this pm.

June 23 Revisited this area in the morning, took 3 more birds. Saw several deer. Broke camp shortly afternoon, left the area about 3 p.m. List of birds + others seen along N. Santiam River:

Blue Grouse	Spotted Sandpiper
Nighthawk (C. minor)	Vaux Swift
Hummingbird sp. (?)	Belted Kingfisher
Yellow Bellied Sapsucker	Hairy Woodpecker
Olive Sided Flycatcher	Alder Flycatcher
Barn Swallow	Tree Swallow (?)
Steller Jay	Raven
Chestnut Backed Chickadee	Dipper
House Wren	Robin
Western Bluebird	Townsend Solitaire
Swainson Thrush	Warbling Vireo
Hermit Warbler	Pileolated Warbler
English Sparrow	American Goldfinch
Pine Siskin	Western Tanager
Oregon Junco	Chipping Sparrow
White-crowned Sparrow	Fox Sparrow

Song Sparrow, Eutamias sp., Deer, Peromyscus
Thamnophis sp. Sceloporus sp.

Banks
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June 23 Drove back to Santiam Junction and west on the South Santiam highway, which follows the river of that name. This is steeper than and not as good a road as the N.S. highway. Just below Upper Soda, near Trout Creek, there is a farm, which looked like suitable *Zonotrichia* habitat, but I could not hear the birds in my brief stop. From Cascadia on down to the valley there are numerous openings where White-crowns could be, apparently, but I did not investigate. Drove on S on 99, turned E on rt. 42 at Canyonville, and slept near Tiller.

June 24. Drove to Rouge Elk, where I fixed breakfast along the Rogue River, then to Eagle Point, where I wanted to look for sparrows - no sign. Drove back to Berkeley, arrived about 6 p.m.

Banks
1960

Journal

Oct. 11, 1960 Haskell Ranch, 10 mi. S Marysville, Yuba Co., Calif.
With Ned Johnson, Gene Christman and Bob Payne, visited this ranch and the Duck club of A.S. Leopold, to see the breeding colony of Agelaius tricolor (q.v.) that Gene had reported finding 10 days previous. Arrived here about 11:30 a.m. Spent 4 hours shooting (+ shooting at) blackbirds, and scouting the area. Left about 3:30 or so. Besides tricolors, the following species were seen: Long billed Marsh Wren, Redwing, Savannah Sparrow, Water Pipit, Killdeer, Sharp-shinned Hawk, White-crowned Sparrow (Gambel), Sparrow Hawk, Turkey Vulture, Red-tailed Hawk, Marsh Hawk, Western Meadowlark, Coot, Mallard, Baldpate. Also saw some smaller ducks (teal?) and some sandpipers I couldn't identify.

Oct. 16 Gworoch Ranch, [W of Santa Rosa, Sonoma Co., Calif.]
There were a good many birds around here on this warm sunny day. Collected 1 Zonotrichia atricapilla. Saw: Plain Titmouse, Bewick Wren, Robin, Brown Towhee, Rufous-sided Towhee, White-breasted Nuthatch, Black Phoebe, Wren-tit, Ruby-crowned Kinglet, Golden-crowned Sparrow, Goldfinch sp., heard a Mockingbird (perhaps thrasher) and flocks of Blackbirds flying over to the SW.

Banks, R.C.

1960

Misc. U.S. Localities

Species Accounts

Amphibians

Reptiles

Birds

Mammals

Amphibians

Banks
1960

Bufo boreas

June 6 Dean's Meadow, 6400 ft., Lassen Co., Calif.
One individual (RCB 771) sitting, facing out, in a depression just its size. May have been a cow track, but more likely the beginning of a *Citellus* burrow. Was cold, made little struggle when I picked it up. About 6 feet from water (lake) facing it. Later, found another hopping toward pond at spring at E end of the meadow. (772). A good chorus of toads singing all evening. they seem to be a good ways out into the lake, not right at the edge.

June 10 Bogard Campground, 5600± ft., Lassen Co. Calif. - Saw one individual hopping near camp.

June 12 Sand Flat, 6800± ft., Mt. Shasta, Siskiyou Co., Calif. Picked up one small Bufo in the rocks beside the road. It had bright yellow-orange foot pads, esp. on front feet. Saw 2 others about the same size (1 inches).

June 13 Saw several others of this same size; collected one (810). All I have seen here have been going the same direction, across the road and up the rocky bank, (NW) away from the flat toward the forest. One I watched made about 5 ft. up and 15 ft. across the bank in about 15 min. It ate an ant, altho it had passed by a couple of others. Its course was marked by sliding back + at least one somersault down the hill, but it showed remarkable agility on the sandy, rocky slope. Finally got to the edge of the *Arctostaphylos* which forms the forest ground cover. No water either behind or in front of its

Banks 1960

Bufo boreas

June 17 Elk Lake, , Deschutes Co., Ore. – there is a marshy area of about 1 acre near the campground on the W side of the lake. A chorus of Bufo from here and other spots around the camp. While inspecting what I thought was the entrance to a mouse burrow, I saw a toad in it. It was wedged in firmly – depth of posterior, about 3 inches. It was facing out. The hole was not a mammal hole – it just fit the toad. RCB 820.

June 18 Sparks Lake, 4528 ft., Deschutes Co., Ore. – A chorus of toads from this lake about 8:30 or 9 a.m. – extremely loud.

Reptiles

Banks
1961

Salvadora hexalepis

April 9 4 mi. S Quartzsite on Rt. 95, Yuma Co. Arizona

At about 4-4:30 p.m. (Mt. St. time) we spotted this snake lying on the side of the black-top road. It appeared to be dead, with the only movement an occassional twitching of the rear half of the body, which I thought was reflex action. The anterior end was limp, and the tongue was hanging out of the mouth. After 10 minutes or so in the car, on the front seat, the snake got more active, drew the tongue back into the mouth. I put it into a paper bag, and it landed on its back. A good while later it was still on its back. But by the next check it had become active again and had righted itself. This was by 7 pm.

Banks
1960

Sceloporus graciosus

June 7 2 mi N, 2 mi E Mahogany Peak, 5000 ft., Lassen Co., Calif.
Caught 2 of 3 individuals seen on a fallen log in rocky pasture here. Caught glimpses of several other lizards, probably these. Shot a lizard to bits at Dean's Meadow - probably this also.

Birds

Banks
1960

Osprey

25 April Salt Point, sea level, Sonoma Co., Calif.

Saw an Osprey fly across Rt. 1, going toward shore, which is 150 yds W. 15 min. later, saw bird going the other way, carrying a shiny silvery fish in its talons - fish nearly ½ length of bird. It flew behind a grove of pines, into the valley.

2.9 mis, 3.7 mi. E. Stewart's Point, sea level, Sonoma Co., Calif.

All day here, saw ospreys with fish circling to gain altitude, flying N.E. Would guess that every half hour one went past. Fish all carried in talons, so head points forward. Fish usually about length of tail of bird, or slightly more.

3 road miles E Stewart's Point, Sonoma Co., Calif. —

The store keeper at Stewart's Point directed me here, to see 3 osprey nests. Drew a map. He owns this land. It is logged redwood forest, lots of slash, very rugged. Several standing tall trees, up to 100 ft. Logged 5 + 65 years ago. Found 1 nest, saw no activity of ospreys.

Banks
1960

Bubo virginianum

June 9 Bogard Campground 5600± ft. Lassen Co., Calif. At dusk, heard an owl in the distance. Walked out on the sage flat near camp and started hooting. To the N I could hear 2 individuals at the edge of the sage + forest, or just in - one high pitched one farther E, + a low-pitched one. Off to the S I could hear 2 others - one high, one low. The low voiced one nearest me (N) flew to the top of a big Yellow Pine about 25 yds. from me, then to another about 40 yds from me. Then it flew way on to where the S pair was hooting. After while it came back toward me, but on the S side of the flat. After a long time the high voiced one near me flew S to a tree in the sage, then on to the top of a tree in the forest at the edge of the flat. there I could see both of this pair in the tops of trees, and could still hear the other pair beyond them.

Banks 1960

Chordeiles Minor

June 6 Dean's Meadow, 6400 ft., Lassen Co., Calif. — A good number of nighthawks here, flying pretty high. Quite frequently can hear the "vruuu" of their dive.

June 7 1 mi N, 2½ mi E Mahogany Peak, 5080 ft., Lassen Co., Calif. Nighthawks started flying and diving well before dark, while sun was still up.

June 8 At 9 - 9:15 a.m., at least one bird diving in the distance.

June 17 Elk Lake, 4900± ft., Deschutes Co., Ore. — there are 2 nighthawks flying over camp, and diving and booming a lot. Both are diving. Their "peent" notes seem to be on different pitches.

June 18 I have noticed the curious flight of these birds several times. Occasionally they give their wings a few very fast flaps, quite jerky. This is after from 3 to 15 normal, rather slow beats. One is soaring a good bit here. Two birds in flight now (7:30 p.m.). Just observed one dive directly toward the other

June 19 One, at least, flying and diving on this inclement evening. Precipitation falling, a mixture of rain, sleet, and snow. 8 p.m. Completely overcast, cold.

June 21 N. Santiam River at Bugaboo Creek, 2500± ft., Linn Co., Oregon. Flushed 2 birds close together on ground. One flew just a few feet and landed, then flew again. The other flew up, "peenk"ed several times, and dived at, but not very near, me.

Banks
1960

Chordeiles minor

June 21 2½ mi. S, 5½ mi. E Detroit, 2000± ft., Marion Co., Oregon.
Flushed one bird, which flew silently about 50 ft. and landed. Found 2 eggs ~~laying~~ lying on the bare ground.

Banks
1961

albino
Calypte anna

Mar. 28 El Cerrito, ~~Alameda~~ Contra Costa Co., Calif. — Mrs. Erin M. Johnson called into MVZ this morning, and reported an albino hummingbird. At 3 p.m., Don Medina and I went here to try to collect it. Mrs. Johnson's address is 8014 Terrace, in El Cerrito. She took us to the area where she had seen the bird twice before, across the street and down the slope from her house, on a trail toward Huber Park. After a short wait, we saw the bird. The plumage was white, with a rosy suffusion on the throat. Bill dark. Its actions were no different from another hummer's. Maple, live oak, + ?Broom, as well as a purple-spiked plant, were in bloom, and both Anna and Allen hummers were present. The albino and another hummer at one time ascended vertically about 4 ft. above the vegetation, bill-to-bill, very close. Very soon there was a chase, and they both flew away, the normal bird in pursuit of the albino. About 45 min. later the albino was back, perched in a maple tree. Don shot, it flew away. We walked a short ways into the nearby field, + saw this albino being chased by another bird in a sweeping circle, rather high. While writing, I have seen 2 ♂, probably 2 ♀, Anna, no Allen — they (Allen) may not have been present earlier.

Mar. 29 Saw the albino again in same area ca. 10:15 a.m. There are Rufous Hummingbirds here also, and one of them chased the albino. Albino reappeared 11:15, was immediately

Banks
1961

albino
Calypte anna

Mar. 29 El Cerrito, ~~Alameda~~ Contra Costa Co., Calif.

chased by a Rufus. It disappeared for about 5 min., then returned + perched in a thicket. Don M. shot it, about 11:35. Description follows: Weight 4.0 gm. Bill dark, short, broad at base. Feet pink with black dotting. Eye black. Crown nearly pure white, but occasional, small green spots on barbules near the ends of many of the crown feathers. Anterior superciliary region + lores with buffy tips to feathers. Back feathers mainly white, with greenish on some barbs near feather tips — back is considerably darker than head. Upper tail coverts similar to back, but darker, with dark shafts. Rectrix 1-1 - distal ½ of shaft dark; distal ⅕ of web greenish, iridescent to slight degree. Narrow band of light at tip. Rectrix 2-2 — distal ½ of shaft dark, distal ⅓ of web green, iridescent. Band on tip of feathers light flesh or pinkish. 3-3 — as 2-2, slightly more green. 4-4, lighter than 3+2, more extensive pink, extending in on inner vane for ¼". 5-5, distal ¼ light, pinkish rufous, esp. outer vane, next ¼ greenish, proximal ½ white. Tail from below similar, but lighter. Under tail coverts pinkish buff for distal ½, proximally white. Several of these feathers have green spots centrally situated on the distal half of the feather. Throat feathers white based with dark centers, esp. a spot distally. Edges of

Banks
1961

albino
Calypte anna

3.

Mar. 29 El Cerrito, Contra Costa Co., Calif.
throat feathers buffy to light tan. One throat feather in pin-stage, a few others with remnants of sheaths at base. Lower throat buffy, darkening in band on upper breast. Breast pure white. Belly dark, rufous-buff, at tip with dark green medial area and white base. Primaries nearly pure white, incl. ~~vane~~ shaft, except for distal ⅓ of ~~vane~~ shaft, ~~and~~ of outer. Web of outer primary with darkening distally. Other primaries with small amount of dark at tip. Secondaries with dark shaft, very little dark on vanes; light-rufous spot at tip of inner vanes. Marginals of under wing pinkish, with dark ~~[illegible]~~ green center flecks. Under wing coverts with dark, green centers; Rufous (light) on axillars and some under wing coverts, extending a little to flank, Upper greater primary coverts white, green centers near tip. Marginals dark. A row of feather missing (bare skin shows) between marginals + lesser primary coverts, both wings, to wrist. Middle (?) primary coverts white edged, large dark spot centrally. The bird was a male, testes less than 1 mm. The skull was unossified. Medium fat, on back + throat. Skin 909, RMB.

Banks
1960

Stellula calliope

June 10 Bogard Campground, 5600 ± ft., Lassen Co., Calif. In the willows in the meadow by the stream here, last night I saw a couple hummingbirds that I thought were these, but I couldn't quite be sure. This morning saw a hummer in the sage + pine, sitting in pine. Took one sitting on a dead willow branch in the meadow.

Dendrocopos albolarvatus

June 12 Sand Flat, 6800±ft, Mt. Shasta, Siskiyou Co., Calif. Watched one individual of this species in unusual feeding behavior. Several times – 6 at least – it was seen to hawk insects in mid-air. It had good success, apparently catching something, a large moth?, each time. It flew mostly between 2 large trees 20 yds. apart – nothing between them. Not heard to drum during this time. Once it was chased from its perch by a Western Wood Pe Wee.

Found a nest of this species in a broken off stump about 8 feet high. Freshly drilled hole about 6 feet up. Hole goes in about 2 inches before the cavity goes down. A bird flew from the stump as I approached. Stump is at edge of flat, the last fringe. As I waited near the nest, this bird returned to the area. It, too, was observed to hawk insects several times. It was seen to land crosswise on a branch. Several times it came into the tree under which I was sitting, but never in position for a shot, although once within 15 ft of me. This tree was the nearest to its nesting stump. Once it flew to the back side of its nest stump, then flew away. It sat on the end of a dead branch and preened for over a minute. A flicker calling in the distance did not bother it. It seems to stay most of the time on branches rather than on the main trunks, but does go on the trunks some. Drums mostly on branches. Finally shot it as it approached nest hole. It was a ♂. (800) Saved stomach.

Banks
1960

Empidonax hammondi

June 7 Dean's Meadow, 6400 ft. Lassen Co. Calif. — A bird, recognized to be this form by its song, having recently heard N. Johnson's recording of it, sitting at the very tip of a 50 ft. White Fir (?) in this mixed pine-fir forest. It moved 50 yds to top of another tree, then flew away. 1 am W of meadow, perhaps 100 ft. higher.

June 8 1 mi. N, 2½ mi. E Mahogany Peak, 5080 ft., Lassen Co., Calif. Shot one bird, which was sitting quietly, from the low branches of a yellow pine. Then heard another a couple trees away — it sang a couple times. It flew ahead of me about 20-25 yds, then flew back over my head, to near where I got the first. It was originally in low branches, but in the last tree worked up in the center of the tree to near the top before I got it. Its song had been 4 notes, in 2 doublets. A moment later a third bird flew into area. It sang "chul-eep" and bobbed its tail every time it sang. During morning I saw several pairs of Empidonax, always at the edge of clearings. Some sang "chul-eep deep", some had a "che-bec" type note, none a real Least Flyc. che-bec.

June 9 Bogard Campground, 5600± ft., Lassen Co., Calif. Thought I heard this species. Shot 2 Empidonax today, one this and one another species, apparently.

June 10 Took another nearby — believed also this species. There are E. traillii in meadow nearby.

June 11 Hammondi very abundant throughout area.

Banks
1960

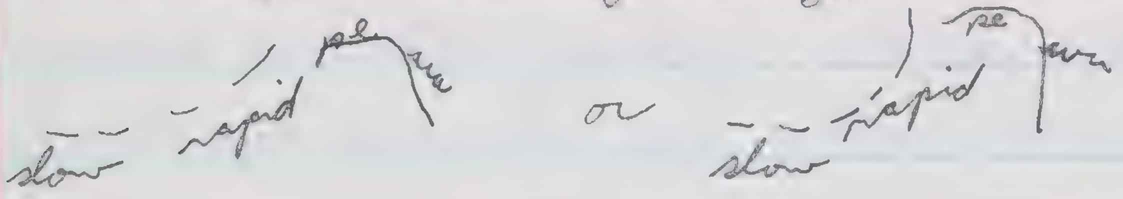
Empidonax

June 11 Bogard Campground, 5600±ft., Lassen Co., Calif.
Took a second small flycatcher in camp. Since it is opposite sex from the one two days ago, same place, may be its mate. This one (795) was on a stump only a foot from the ground; as I recall, the other one was on the ground, also.

Banks
1960

Contopus richardsonii

June 9 Bogard Campground, 5600± ft. Lassen Co., Calif. — Am listening to an evening song, which I believe is this species. Have heard it for the last several evenings at various places. It consists of 4 or 5 notes followed by a typical peewee sound.



June 13 Sand Flat, 6800± ft. Mt. Shasta, Siskiyou Co., Calif. I have heard this evening song here also. The birds here stay very high in the trees, which are quite tall. There seems to be no understory flycatcher.

June 18 Elk Lake, ______, Deschutes Co. Oregon — this species is not common here — in fact there are few flycatchers of any type. Have seen the birds only right in camp, and at Sparks Lake. They are not out in the forest.

Banks
1960

Iridoprocne bicolor

June 18 Sparks Lake, 4530±ft., Deschutes Co., Oregon – It appears that this species here is just in the early stages of nesting. I collected one of a pair which I observed in a chase, presumably sexual. The pair repeatedly made sallies out from and back to a ~~deat~~ dead tree, in which there was a hole about 20 ft. up. As soon as I shot this bird, the branch upon which she and her mate had been sitting was occupied by a pair of Mt. Bluebirds. Could there be competition for old holes? Another pair of tree swallows was seen at a dead tree, playing around a hole obviously too small for them to enter. The species is very common along this chain of lakes from Todd L. to Elk Lake.

Banks
1960

Perisoreus canadensis

June 12 Sand Flat, 6800±ft, Mt. Shasta, Siskiyou Co., Calif. - While I was walking in the afternoon, saw one of these birds come into a ~~pine~~ tree at the edge of a flat. Shot it. While retrieving it, another landed in the tree. Took it also. First one shot was a ♀, second ♂.

June 14 A pair came into my camp while I was getting breakfast. They landed in a fir. One flew down toward the table on which I was cooking, veered sharply as it was about to land on the burning Coleman stove, and flew back to the tree. Both birds worked up into the higher branches of the tree, then disappeared. Did not hear a sound from either of these pairs of birds.

June 15 ~~[illegible]~~ W end Crescent Lake, , Klamath Co., Ore. - Saw one bird in the camp.

June 16 1 mi. W Crescent Lake, , Klamath Co., Ore. - Saw 2 birds come silently into a nearby tree, then they flew to another tree. One bird came very close to the other and appeared to feed it something.

June 17 Elk Lake, , Deschutes Co., Ore. - On the ridge just W of the lake, about 5 p.m., saw 3 of these birds in immature plumage. I stood still, and they came very close to me - 10 ft. Collected one. A short time later, saw 2 ad. and 2 imm. - probably the same family. At least one of the young begged for food, squeaking and fluttering its wings. I could not see for sure, but don't think it was fed.

...ks
1960

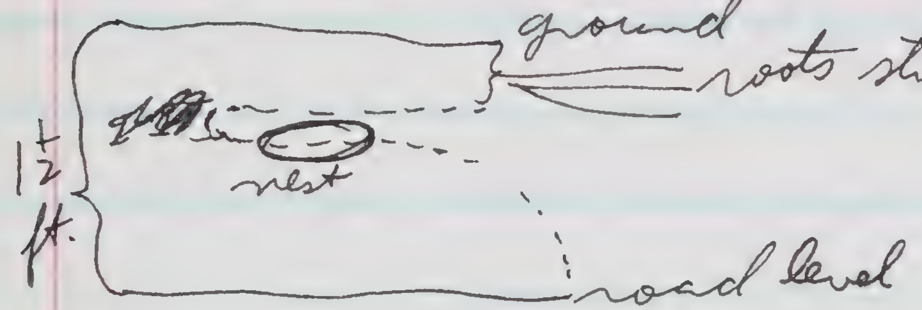
Sialia currucoides

June 7 Dean's Meadow, 6400 ft., Lassen Co., Calif. — My attention was attracted by some "churr"-ing sounds, to a dead fire-scarred pine on a bare slope. A bluebird was attacking a chickaree, trying to drive it out of the tree. The bluebird repeatedly dove at the rear end of the squirrel, coming very close with its bill. I could not see if it actually made contact, for the squirrel moved very rapidly a few feet each time. General progress of the squirrel was down, but occasionally went back up a few feet. Finally squirrel went down to ground, bluebird flew away. All the time a Mt. Chickadee was sitting in the tree quietly, at the tip of a branch, occasionally fluttering its wings, watching very closely.

Banks
1960

Myadestes townsendi

June 16 1 mi W Crescent Lake, , Klamath Co., Ore. – A bird flushed from the side of the road near me. Found its nest under a projection of the road bank. There are 4 eggs, pale ground color with reddish-brown splotches, most concentrated near the large end. The nest appears to be mainly old pine needles, and sits in a hollow so the top is at ground level. The nest seems large, in that the eggs do not nearly fill the bottom of the cup.



Banks
1960

Sturnus vulgaris
Starling

June 7 1 mi. N, 3½ mi. E Mahogany Peak, 4920 ft., Lassen Co., Calif.
Just caught a glimpse of a black bird flying past the house here, which I thought was this species. This is just at the edge of Willow Creek Valley and the forest land.

June 8 Saw several birds here as I left area.

Banks
1960

Vireo gilvus

June 11 Bogard Campground, 5600± ft., Lassen Co., Calif. - Took a pair of birds from lower limbs of a medium sized Pine near willows along the stream. This species is fairly common in the area.

Banks
1960

Dendroica coronata

19 Mar. Wildcat Canyon, Tilden Park, Contra Costa Co., Calif.
Found this bird floating in the stream about 8:30 a.m. It was in good shape, not soaked. Skinned it in p.m. ♂, tes. 1 mm. The skull had a dent in it, on the right side, back of the eye.

...hs
1960

Agelaius tricolor

Oct. 11 Haskell Ranch, 10 mi. S Marysville, Yuba Co., Calif.

Tricolored blackbirds were here in flocks of thousands, birds very much in evidence in all the tule patches on the various duck ponds. We were in the vicinity of ponds 1-3. Breeding seems to be taking place in all these areas, perhaps less around 3 although I did not check carefully here. I went into the cat tails at the SW corner of pond 1, near the high levee. In about 15 feet the birds were spaced rather evenly on the tules, about 2-3 ft. apart. 15-20 feet in from the edge of the tules I began finding nests. In 2 separate trips into the same area (perhaps 10 ft. apart) I found 1 nest with 1 egg, 4 with 2 eggs, 6 with 3 and 4 with 4. There were some old nests ~~and~~ some new ones without eggs. Some of the unoccupied nests were wet inside. Nests were from 1-6 feet above the water, which was about 3 feet deep. I got the impression that only nests 3-6 ft. high had eggs in them. Tules in this area were white with splotches of droppings from the perching birds. The birds arose in large flocks from the nesting areas, flying around the edges of the marsh, these flocks seldom flew out over dry land. Small flocks, up to a dozen, were often seen flying in to the marsh, but I saw few of these birds leaving. From the high levee at the outlet of the ponds (1) I could see marshy area on the other side, and there

Agelaius tricolor

Banks 1960

11 Oct. Haskell Ranch, 10 mi. S Marysville, Yuba Co., Calif.
were tricolors there, also. When we left the area in midafternoon, there were hundreds feeding in the fields where the dirt road from the ranch joined the main road.

Banks
1960

Hesperiphona vespertina

June 12 Sand Flat, 6800±ft., Mt Shasta, Siskiyou Co., Calif. – Evening grosbeaks are abundant here. Saw a pair early in a.m. Others can be heard calling in the tops of the 100±ft. trees around camp, and elsewhere in the forest. Saw a ♀ down low in a clump of small fir, she may have a nest there. The birds stay high in the trees – way out of range. I think this is the species I have seen gliding between the trees, not sure. Their note is very Carpodacus-like, and much of the time I am not sure what I am hearing.

June 13 Saw a ♂ low in a small tree and shot it. Only wounded it, and when I approached it, it faced me and opened that big, white bill. I was very careful how I picked it up. A ♀ flew from the tree when I shot – I hadn't seen her. This species is common all the way to Panther Meadow, 7500±ft., 3 mi. away.

Banks
1960

Junco oreganus

June 7 Dean's Meadow, 6400 ft., Lassen Co., Calif. — flushed junco from nest containing 3 eggs, at base of 3-ft. pine.

June 9 Bogard Campground, 5600± ft., Lassen Co., Calif. — As I was walking across the sage flat just after dark, 9 pm., a junco fluttered out across the ground from about 6 ft to my side. It did not fly until I shined my light on it. Found a nest with four eggs in a clump of sage.

June 10 Saw a bird under a pine gathering very fine grass-like material, presumably for nest building.

June 16 1 mi. W Crescent Lake, , Klamath Co., Oregon — Flushed a ♀ from a nest in a hollowed out cavity under the edge of the road bank, on the road to Summit Lake. 4 eggs. Collected her. She had landed in the road, then flew to a small pine and was chipping.

June 21 7½ mi. S, 5½ mi. E Detroit, 2000± ft., Marion Co., Oregon Found a nest with 4 eggs. Both adults flushed from within a foot of each other.

Banks 1960

Zonotrichia leucophrys

Mar. 24 Berkeley, Alameda Co., Calif. - Frank Pitelka trapped a brown-crowned White-crown, brought it to me on 25 Mar., when I prepared it as RCB 722. It was a ♀, ovary 5 mm long with small ova (<1 mm). Skull completely 2 layer. Molt on crown and breast. Probably a local bird rather than a northern one. It might be pointed out now that most of the migratory birds have left already - at least on campus one does not see the small flocks that I associate with wintering "pugetensis". The birds here are singing, on campus and in Strawberry Canyon.

Mar. 26-27 On March 28 F.A.P. brought me 6 more birds from his yard. These were ~~put up~~ worked on on Mar. 29. The first I did (722) was a ♀, about the same stage of development as 721. It was in heavy molt - the head, esp. under the mandibles and between them, the
(1) Ad. coronal region and side of the neck, as well as the anterior parts of the ventral tract (but not the posterior parts) ~~A~~ humeral, and the dorsal cervical tract were all well observable as molting from inside the skin. 723 was a ♂, fattest sparrow I've ever seen - gobs of white fat
(2) Ad. over abdomen, and in furcular area, and over the body. Gobs that I could pull off weighed 5 gm. Molt on dorsal cervical region only, as far as I could tell, but couldn't see most of the tracts for the fat. testes 3 × 1½ mm. Soaked skin in gasoline till 30 Mar.

Vol. 3.5

Banks
1960

Zonotrichia leucophrys

Mar. 26-27 Berkeley, Alameda Co. Calif. A third bird, ~~lost~~ started as 724, lost so many back feathers before I started that I quit. It was a ♂, tes. 3+2 mm. It was as fat or fatter than 723. In molt, feathers in sheath on entire head (frontal, coronal, occipital + superciliary regions - not auricular or cheeks) throat, ~~and~~ and central rectrix in sheath but apparently full grown. Wt. 31.9 gm.

Vol. 6.3

(3) Ad.

Fourth bird, started as 725, not finished, weighed 31.4 gm., was similarly fat. Molt on head - all major regions, including cheeks (below eye, before bill - below lore), also on dorsal cervical region, throat + upper abdominal regions. A little molt on lower back (rump?), Central rectrices apparently not replaced, but can't be sure. 8th + 9th secondary in sheath, 9th smaller on right wing. On left, both these are w/o sheath, but 7th GSC has sheath.

(4) Ad.

On previous bird, re-check shows no sheaths in secondary region, apparently fresh feathers. This bird (ie, 725) is a ♀, ova small.

[illegible]

Next two birds collected 27 March. The first of these has a crown mostly brown - 1st year. Most feathers in sheath - even feathers coming in are brown! All head and facial tracts are in sheath. Molt extends down entire dorsal tract to ~~—~~ oil gland, but is less extensive on back than on crown. - or more nearly completed,

(5) 1st.

Banks 1960

Zonotrichia leucophrys.

Mar 26-27 Berkeley, Alameda Co., Calif. Lateral upper tail coverts are in sheath, central ones (1 pr. only) appear old + worn - these are only ones not in sheath - others are more sheathed + smaller moving laterally. Central rectrices 2/3 to 3/4 grown, in sheath. Other rectrices old. Primaries, alula, + their coverts not in sheath. Secondaries (left) ~~6, 7, 8~~ 7, 8, 9 in sheath, as are their upper greater coverts. ~~6 + 7~~ 7 + 8 are nearly full size, ~~8~~ 9 just bursting sheath. Right wing identical. Crural tract (leg) has some feathers in sheath. ♂, Tes. 2+1 mm. Vol. 1.0 mm³

(6) ad. The last of these birds, ♂ Tes. 3+2 mm. Vol. 6.3, Wt. 34.0 gm., also extremely fat, was essentially done with molt. Only a few crown feathers in sheath. Plumage very fresh all over.

Bird (3), the 1st year, had very little fat, and it was yellow - no big gobs of white "suety" fat as on others. All the above birds represent migrants, i.e., pugetensis.

Apr. 2 An adult gambelii, 26.3 gm. crown black + white except for 1 feather on left black stripe. It is worn, but so are some of the black + white ones. All new feathers black + white. Molt from frontal to occipital, most coronal; superciliary, auricular, malar, loral; anterior cervical + upper back have nearly fully grown feathers; lower back has sheaths only exactly centrally, along spine, these less grown than those on upper back. No evident central tail coverts; others in sheath, biggest centrally. Replacement must be 2, 3, 4, 5. 6 not dropped as yet, but is

Zonotrichia leucophrys

Apr. 2 Berkeley, Alameda Co., Calif. F.A. Pitelka home
gone on left. No rectrix replacement. Under tail coverts in sheath, progressing from central laterally. Entire crissum apparently replaced. Crural tract new, pin feathers only at bottom, near joint. Ventrally, all feathers are new or in sheath, incl. and cirelet. All sec. coverts (~~ll~~ ~~left~~ right) look new, inner ones w/ traces of sheaths. Secondaries ~~#7+8~~ look worn, but broadly edged with white. Tertials? On left wing, sec. ~~#6+7~~ 7+8 as above, their coverts in sheath. Sheath on base of sec. #6! Two feathers more medially, both in sheath, outer 2x as long as inner, more fully grown. Humeral tract, much molt. ♀. Fat in furculum.

Apr. 3 Two more brown backed birds. ① 24.1 gm, black & white crown; Little molt on crown, but increasing toward occiput. Few sheaths on other head tracts. Only traces of sheaths on neck + upper back, very few toward rear, none on rump. Most back feathers look new. No molt of tail or upper coverts. A few sheaths on crissum. Interramal feathers new, a few sheaths; more on throat; all new or in-coming feathers on abdominal tract. ~~Sec.~~ ~~6,7,8~~ 7,8,9 new, no sheath on sec. or coverts. Wings same. Many on humeral tract (scapulars) in sheath. ♀, moderate fat.
Second bird, 28.3 gm. Most remiges in very good shape! (No sheaths → tips worn. Black + white crown. Head (incl. interramal) all new. Only a few sheaths left on either dorsal or ventral surfaces.

Banks
1960

Berkeley, Alameda Co., Calif. (JAP home)

Apr. 3 No molt of tail, apparently. This bird is essentially done with molt. Very fat, (extremely) ♀.

Apr. 25 Salt Point, sea level, Sonoma Co., Calif.

This is an area of pasture on both sides of the road — extending to the cliffs above the water on the W. side, to a grove of Pines on the E. Heard a few birds singing at edge of pines, but when I got there couldn't find any. Also hear birds toward the water, where there is no brush or cover at all — just grass and rocks. Am not convinced that they are nesting here, but may be. ~~Song~~ Song here is — — - - - , some-~~times~~times with an upslurred ⌣ at the end. (or down?)

Osborn Ranch, 2.9 mi S, 3.7 mi E. Stewart's Point, sea level, Sonoma Co., Calif.

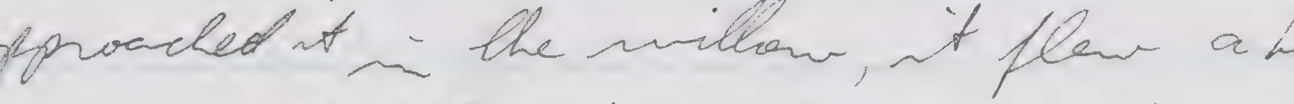
Bird 1 singing in top of small pine. — — - - -
In area, several birds singing — — - - - .
Bird 2, with this latter song, was with another — after quite a chase — on a large fallen dead pine. No. 3 was flitting quietly in the lower branches of a pine. Was seen to catch an insect flycatcher fashion. 2 was attracted to 4 by its song (as above); it led me down a row of small pines in grassy field, to edge of bluff. No. 5 was in a pine with another bird — both had flown in from foraging in very short grass. As I got 5, no. 6 flew up in a pine 15 yds. away. # 7 is probably mate of 6. 8 was one of a pair feeding in grass. Mate wounded, escaped into brush. 9 was in a pine tree. 10 flew in behind me after a

Zonotrichia leucophrys

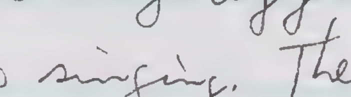
25 Apr. 2.9 mi S, 3.7 mi E. Stewart's Point, sea level, Sonoma Co., Calif.
had crossed a gully - It landed atop a clump of ferns.
No. 11 flushed from a pine onto a dense clump of brush, 3 ft. high. Did not go in brush, sat on top.
#12 was one of 2 birds. Shot from a pine. When the 2 flew a couple times, gave notes which I associate with copulation or begging (for copulation).
2 p.m.: #13 was a bird I had wounded this am. #14 was feeding in short, sheep-grazed grass - its wounded mate got into dense brush. #15 was in pine. 16 was in short grass, near a clump of dense brush. #17 was singing near car.
Summary - In general, birds today were quiet. It is a cloudy + rainy day, + they are staying in the inside of the pines. Little singing. Not extremely abundant here - probably 20 pairs in this area of .9 x .25 miles. See journal.

11 May Berkeley - today starting to put up specimens sent by Dr. Robert S. Hoffman, Montana State Univ. These birds were collected in 1958-1959 in various parts of Montana and are cataloged in these localities. My numbers run from 753 upward. The birds were injected with formalin and frozen. On the journey here they partly thawed and were refrozen here for 2 weeks or so. Weights may be off some because of formalin. Correspondence covering these birds is in MVZ file, early 1960.
Later: Could save only parts of these birds.

June 9 Bogard Campground, 5600'± Lassen Co., Calif. — Heard one bird singing this afternoon, in Pine-sage at the edge of a grassy meadow with willows bordering the stream. This is the area of the meadows at Bogard Range Sta. where Linsdale reported sparrows "20 pr. ±" in the Lassen section. The Ranger Station has moved ca. 1 mi. N. of its old location. See journal for fuller description of area.

June 10 In same area can hear again 1 bird. It sings:  As I approached it in the willow, it flew a hundred yards into the pine — a grove of small trees, 15', growing in the sage. As I sat writing notes, I heard it farther away, in larger pine. Can only hear one bird at a time, and think that is all there is.

June 21 2½ mi S, 5½ mi E Detroit, 2000± ft., Marion Co., Oregon

In a recently logged and burned area, heard a few White-crowns singing. The area is covered with charred logs, and there are a number of dead standing 30 ft. trees. There is a good green low ground (weeds) cover, and a few clumps of Acer 3 ft. high. The first bird heard (#831 taken) sang . Others can be heard with the same general song, less descent on the trill.

Found a nest on the ground in a clump of bracken by flushing the ♀. She flew over the brow of the hill, and 2 birds came back. I got one of them #832. Took a third bird #833 which I first saw chipping. Just after getting this bird,

June 21 2½ mi S, 5½ mi E Detroit, 2000± ft., Marion Co., Oregon

another appeared in a nearby tree, sat chipping "peent". Got it too. #834 This area is adjacent to the road, which is right by the N. Santiam River. It extends for about ¼ mile along the road, somewhat less into the hills. A cross section would appear like this:

After taking these 4 birds in rapid succession, half an hour or so, most of the area is quiet, but I can hear one, perhaps 2 birds singing at the other end of the area. It is quite windy here. Heard another bird sing — — ⌒⌒ ~. There are 2 distinct song types here. As I neared the W end of this area, I could see that the topo sheet shows it very well, and that the above profile, drawn for the N-S axis, fits equally well for the E-W axis. (Mill City quad, USGS, 1929).

June 22 This morning at 0730 I can hear 2 birds singing — both have a song as the last described above — — ⌒⌒ ~, except that one adds a trill — — ⌒⌒ ~ - - - -. Got this last bird (835) - sometimes he leaves the trill off his song. On my way up the hill I flushed a ♀ from the same nest as yesterday, so it wasn't her that I got second yesterday. Couldn't get her now, either. Saw a bird with what seemed like a mouthful of insects. As soon as I got her, another began to "peent" right there (836-837) - am sure these are mates. Can see and hear another bird singing — — ⌒⌒ — ~, the basic song with one additional note.

Banks
1960

June 22 2½ mi S, 5½ mi E Detroit, 2000± ft., Marion Co. Oregon

The White-crowns here seem to be all on the slope or on the top just at the edge of the slope. The slope is S-facing, so is sunny all day. Here too the ground cover seems densest, there being fewer open spaces due to the logging operations. Chipping sparrows are abundant here, juncos less so. There are several Ravens (4 at least). As I sit here writing, all is very quiet, as far as Zonotrichia goes.

June 23 Took a pair 840-841 which fell in almost the same place. One had had insects (?) in its bill. Later, got one 842 of a pair which I chased for a long time, yesterday + today. This appears to be all I can get from this population. I've taken 10, and would estimate the original population to be not over ten pairs, perhaps not that many.

Banks 1960

Zonotrichia leucophrys

July 26 6172 Chabot (College + Chabot) Oakland, Alameda Co., Calif. -

Jim Mulligan live-trapped 2 ad. ♂♂ which he brought to me. He said both had been singing. Both birds had enlarged testes, but were in early stages of the annual molt. The first (843) had almost all lower back feathers nearly full grown - many of these fell out, ~~and~~ with the remnants of sheaths on them. The other (844) was similarly molting in the lower back, and the primaries as well. the left wing had prim. 1 + 2 in sheath, 1 large, the rt. wing had 1 + 2 similar to left, + additionally the 3rd prim. was just through the skin. Left P-3 was not yet dropped. No molt of secondaries or crown or breast on either bird.

Banks
1960

Zonotrichia atricapilla.

Apr. 1 6 Ivy Drive, Orinda, Contra Costa Co. Calif. — Bird caught by Ron Church. Kept cold until Apr. 4, when I examined it. Crown pattern 1A (News Bird-Banders 33(3):25, 1958) A few pin feathers on coronal tract, in yellow region. Many more on posterior coronal and occipital regions, less well developed (shorter). This continues on dorsal cervical region and over anterior ½ of back. Fewer on lower back + rump. All back feathers farther out than crown + occiput feathers. No uppertail coverts or rects. in sheath, but deck pair may be new. Entire ventral surface except under tail coverts has many sheaths + pin feathers. ⅔ of auriculars are in sheath. Left sec. 8 + 9 in sheath, 8 just broke its sheath, 8 about ¾ grown. Many humeral feathers in sheath. Right sec. 7, 8 + 9 in sheath, 7 + 8 both ¾ grown 8 just out of sheath. Humerus as on left. Many sheath feathers on both surfaces of wings. Crural tracts also with sheaths. Primaries OK. — new?

Apr. 4 Another bird this date by R.C. Molt very extensive on all contour feather tracts — lower back only is relatively free of feathers with sheaths. Secondaries 7, 8, 9 have sheaths, coverts as well, both upper + under. Tertials have no sheaths. Central rectrices ⅔ – ¾ grown, their upper coverts w/sheaths, many lower tail coverts + anal circlet feathers coming in. Wt. 38.1 gm. Crown pattern 2, but with silver on rear of crown as in 5 A-C. — some brown between yellow + silver. ♂, L. tes. 2 × 1½ mm.

Banks
1960

Zonotrichia atricapilla

Apr. 9 6 Ivy Drive, Orinda, Contra Costa Co., Calif. - Mouse-trapped by Ron L. Church. Wt. 34.9 gm. Crown pattern 3, near max. Molt very extensive on crown. In front of eyes, gold or yellowish extends laterally over + into black stripe area, but stripe is formed posteriorly. Fewer in sheath anteriorly. Feathers just behind gold coming in grayish, but on rear of crown + occiput they are more brownish. All crown + facial regions have some sheath feathers. Neck + upper back (to beginning of solid colored back feathers) all in sheath or apparently new. Relatively few lower back or rump feathers in sheath. No sheaths on upper tail coverts, no new rectrices. Most ventral feathers new or in sheath, very few old ones, ~~sheaths~~ feathers more fully expanded posteriorly. Most of anal circlet + a few crissum feathers in sheath. ~~Thigh~~ Crural new (?) except a row on posterior and a ring distally. No secondaries in sheath, but [left wing] upper greater seccoverts 9+8 have sheaths. Under sec. coverts 4 on have sheath. Sheaths on a few humeral feathers. Right. sec. + gr. u. sec. cov. 9 both in sheath, only ones of series; rest of wing same as left. ♀, slight fat.

Apr. 10 By R.L.C. Crown 5C, 40.4 gm. Beautiful plumage. Molt complete except for sheaths on ⅓ post. interramal feathers, and a few scattered breast feathers. Sheath still on left gr. sec. cov. 8. No rectrices replaced apparently. Put up as 726. ♂, very fat.

Apr. 11 coll. R.L.C. 33.4 gm. crown type 5. Anteriorly on crown many sheaths ready to burst, posteriorly many have burst. On occipital region, some in sheath, some burst, many old. Anterior back w/mostly small pin feathers, mostly old feathers. Rump with some sheaths. Rectrices 1-1 over ¾

Zonotrichia atricapilla

Apr. 11 6 Lucy Drive, Orinda, Contra Costa Co, Calif. (cont'd).
grown, sheaths still on proximal 1". Very tiny sheathed covert on rt. rectrix 1. Rt. upper tail coverts 2, 3, 4, 6 in sheath, 5 old. Left 2, 3, 6 in sheath, 4 & 5 old. Chin, throat & breast with many feathers in or just breaking sheath, few ^some has grown, many old. Belly similar, flanks with more nearly grown feathers, still in sheath. A few on crissum in sheath, mostly old. Left wing: Sec. 7 with trace of sheath. 3 of middle sec. coverts just past sheath. Rt. wing: Sec. 7 with sheath, several inner mid. sec. cov. w/ sheath, many under sec. cov. w/ sheath. Crus with sheaths + old feathers. ♀, slight fat.

near Orinda → Apr. 10
Apr. 13 Bird caught by O.P. Pearson at his house, near Orinda. 3 birds this date - 1 dead. Examined 13 Apr. Crown pattern 5 A-C. All yellow feathers have sheaths at base, some still pin-feathers (most anterior). Less + less sheath moving rearward over crown, on both white + black - occipital feathers brown (darker shafts) without sheaths. Neck + ant. dorsum mostly new, or with small sheaths yet. No sheaths on lower back - feathers look old. Central rectrices w/sheaths, grown except for last ¼ - ½ inch. No sheaths on upper tail coverts. About ½ of ventral feathers in sheath, but most ½ or more grown. Crural tract w/sheaths only on most distal rows. No sheaths on crissum. Wing molt completed. Bird died in cage - feathers cage-worn. Wt. 25.2 gm. ♂, tes. 2 × 1 mm. Very slight fat.

Crown 5. Band 24-180326. Most of crown w/ sheaths, more fully grown near occiput, all head in molt.

Banks 1960

Zonotrichia ~~leucophrys~~ atricapilla

near Orinda, Contra Costa Co., Calif. - Home of O.P. Pearson

Apr. 13 Sheaths on distal and posterior crural area. Entire ventral with ½ or less grown feathers, few or none without some trace of sheath. 3 rt. inner mid. sec. cov. w/sheath, -½ grown. 3 inner secs. + greater covs. also w/sheath, in length of feather 7>8>9. Other wing same; lower (under) sec. coverts also w/sheath. Most of upper back + a little of lower with sheaths. Crown 5A-C, Band 24-180327. Cage worn condition makes it difficult to tell if feathers old or new. On crown, sheaths only anterior to eyes, + these just broken. All facial tracts, incl. superciliary, with sheaths. Ventral tract with sheaths anterior ½ only. Crural w/sheaths posterior + distal, 1 ant. No sign that deck rectrices were molted. A few under sec. covs. in sheath; no secs. or upper covs.. Cannot tell if they have been replaced. Sheaths on dorsum only on ant. ⅓, not on neck; feathers about ½ grown.

Bird caught this AM by Pearson. Crown 5A-C; Band 24-180328. Most yellow feathers in sheath, as are ~~crest~~ occiput + neck, more posterior more fully grown. No sheaths on rt. wing. On left, sec. 8 with sheath, 9 gone. No coverts in sheath. No sign of deck-rectrix change. Dorsal + ventral molt only anteriorly.

Apr. 12 6 Ivy Drive, Orinda, Contra Costa Co., Calif. - Head, tail, rt. wing of a bird. Central rectrices appear to have been replaced. No sheaths on any wing feathers, i.e., remiges or greater coverts. Crown (5C) has sheaths on only a few feathers of ant. ⅓.

Banks
1960

Zonotrichia atricapilla

Apr. 12 6 Ivy Drive, Orinda, Contra Costa Co., Calif. –
All other facial or head tracts are complete – no sheaths.
A couple sheaths interramally.

Apr. 15 near Orinda – Pearson home – one bird brought by
O.P.P., Crown 5C. A very few crown feathers still
in sheath – these before eyes, in black stripes. Cheeks
and behind eyes with sheaths, as are a few
auriculars. All these ¾ or more grown. Central rectrices
apparently not replaced. No sheaths on secondaries or
coverts. Most ant. ventral feathers new, but many
sheaths on feathers nearly full grown – throat same.
Neck similar – Mostly renewed plumage – very
near end of molt.

Apr. 22 Ad., Crown 5B. A very few sheath remnants
in interramal region are only sign of molt.
Central rectrices have apparently not been
replaced.

Oct. 16 Boswell Ranch
Many of these birds, singing weakly, in small
flocks around the edge of the woods. The one I got
was an ad. ♂ with fully developed crown. It
had a deformed hind toe, left foot. There was
one breast feather in sheath – but for all practical
purposes, there was no molt.

Banks
1960

Z. capensis captive

Aug. 3 Strawberry Canyon, Berkeley 3pm. The leaf litter which had been put in shortly after 1pm. had been disturbed. Wt. 3.3gm. Down ca. ½ inch on back, humerus, forearm, crown, occiput, and where leg joins body. The bird gaped twice while I was holding it for weighing and examination, but not when I put it back into nest and tried to feed it. It assumed the "egg position, with head bent under body. I put in a pan of leaf litter and as soon as I was in position to watch (10 yds from cage), could see one bird scratching in it. It did not go to the nest. At 3:20, ♀ went to hanging feeder, and was seen to be holding something in her mouth. She flew to the nest brush-pile, but did not go to nest. For over 1 min. she sat (again) on feeder, near nest, flicking tail nervously, crown feathers semi-erected. Flew away. Back to feeder, same action, flew to brush but worked down to ground. 3:25, both birds in brush, one holding insect (?) in mouth. 3:26, ~~one~~ bird in view, suddenly at least other came from nest area to it, both to ground. 3:29 both birds at nest, one fed young, or at least put head in nest. Both flew away. 3:31 One bird scratching in leaf litter. Both hopped from ground to branches, one rubbed its bill on branch. At least one resumed foraging in litter. 3:38 Quiet for several min. Both flew from top of cage to branches, one visited brush pile briefly. 3:40 One flew to box & pecked at mash. 3:47 I left for 5 min. 3:52 took new position 10 yds. farther away, could see less of cage. Until 3:57, saw activity only once.

Banks
1960

Z. capensis captive

Aug 3. Strawberry Canyon, Berkeley at 3:57, one bird, first seen in brush pile, worked up to nest. 4:00 one at nest and one apparently on it. The former poked its head in several times; I could barely see the back of the other. First one left, the one on nest stayed there. 4:11 dog walked past cage, but no activity from birds. Between 4:20 + 4:25, 8 cars + trucks went by, but no disturbance. 4:27 a bird flew down from top of cage or enclosure, and the other left the nest. The latter flew to box w/ mash, then to ground and began to scratch in litter. 4:31 Both ad. in brush, at bottom. 4:33 ♀ in brush, worked up, gleaning from brush + wire, 4:35 ♀ to brush, to nest, appeared to feed + then settle on nest. Left in about 1 min. At least 1 scratched until 4:40, without visiting nest. At 4:45 I put in more litter; ♀ foraged it at once. ♂ was picking from screen over nest, at 4:50, one visited nest. Lost track. At 5:05, ♀ brooding, sat till I almost was at nest. Egg not hatched. [Hatch by 7 pm].

Aug. 4 One bird flew from nest area at my arrival at 8:30 am. 8:33 ♂ foraging on willows, then at artificial food. ♀ scratching in leaf litter. 8:37 both foraging on leaf litter. 8:40 ♀ with something in mouth, visited brush pile, but not nest. 8:45 no visits to nest yet. 8:46 As I was at truck, preparing to enter cage, one bird visited nest. It stayed there. 8:54 a young Carpodacus landed on elec. control box outside cage. At once a capensis flew to beam alongside, appeared rather crouched. Linnet flew over top of cage, + bird inside "chased" it from below, the length of the cage. 8:57 ♂ hopping

Banks
1960

Z. capensis captive

Aug 4, nervously about upper part of cage, then flew to ground + foraged in litter. 8:49 ♀ left nest. I entered cage. First bird at 9:05 weighed 3.4 gm. Marked this one by clipping ~~nail~~ claw of middle toe of rt. foot. Second bird 2.4 gm. No noticeable difference in down. On both, slightly dark areas marking papillae on forearm. 10:55 ♀(?) was on nest, + remained there while I was in cage putting out grasshoppers. She stayed on all the time I was in. 11:00 both birds hopping about in cage when I was at lunch. 1:15 pm. The grasshoppers were gone + most of the egg, they take the yolk before the white. Put out more grasshoppers, + fed 3 pieces to the birds. As I wrote this, an adult visited food, then went toward nest. 3:05 Marked bird 4.4 gm. Black dots of papillae visible on entire back tract, scapular, femoral, humeral, alar, tracts. Papillae of ventral tract not dark ~~but~~ visible. Unmarked 3.1 gm. Dark papillae on dorsal, humeral, alar, scapular - not femoral. Not as marked dots, + fewer, than other bird. The food placed out was gone. I supplied more grasshoppers + egg, and another tin of leaf litter. 5:15 Food gone once more. I fed both young; the older, fed first, immediately turned 180° and put out a fecal sac.

Aug 5. 9:05 Most of the food put out at 7 was gone; egg white + insect thorax remained. I fed one young; the other did not gape. Put out more food. 11:00 ♀ was brooding, remained so the 5± min. I was in cage. As soon as I left, ♂ visited food I put out, + went to nest. Went back to food, but not a second time to nest, as far as I could tell.

Banks
1960

Z. capensis captive

Aug 5 Berkeley 1:10 Ad. not on nest, I fed both young. 3:00 Put out more food. Unmarked bird 5.1 gm. Spots on alar tract merged into dark line. Spots on other tracts more definitive. Rectrix spots. Ant. lat part of ventral tract with slightly dark spots. Marked bird 6.1 gm. Spots of all tracts except femoral have merged into dark lines; Show as definite feathers under skin on back and humeral tract. Anterior + lateral part of ventral tract shows dark papillae. Very active in hand. Both birds gaped when I moved the nest. Fed both after weighing. As soon as I was in truck, an ad. visited the food. 5:05 Fed the little one - the other did not gape.

Mammals

Banks
1960

Coyote

June 7 Dean's Meadow, 5400 ft, Lassen Co., Calif.. As I went to bed last night, I heard coyotes in the distance. This morning at 10:15, I looked over the meadow and saw 2 coyotes. One was limping, holding its right front foot up. They walked casually to S side of meadow, then returned to center + went E toward the lake.

2 mi. N, 2 mi E Mahogany Peak, Lassen Co., Calif., 5000 ft. Flushed one animal about 5 p.m. It had apparently been resting in an area of rocks + logs. It trotted about 50 ft, turned and looked at me for a moment, then trotted off into the forest.

June 9 Bogard Campground, 5600± ft, Lassen Co., Calif. — Coyotes started howling early tonight - at 8 p.m.. Sun is barely down below horizon. At 8:30, still very light (light enough to write these notes) they howled again.

Peromyscus maniculatus.

June 9

Caught one mouse near some down logs.

June 12 Sand Flat, 6800± ft, Mt. Shasta, Siskiyou Co., Calif. -

In 5 traps caught 3 mice. Last night I saw one poke its head out of a rock cairn along the road. Caught two there, and one other a short ways away.

June 13 Had 2 traps in the tent to protect my supplies, & set the other 3 out, one near the road in rocks, one near a log, the other by an old stump. Within half an hour heard a snap, had a mouse by the road. This a.m., had one in my tent. It was in both traps. Apparently got tail + hind foot in one, and while trying to get away got into the other. The second smashed its skull. Saved the first (806); the other, in tent, weighed 19.2 gm, measured 140-51-20-18. It had previously lost part of its tail. It was a male.

June 20 N. Santiam River at Marion Creek, 2400± ft; Linn Co., Oregon

Set 2 traps on an old upturned stump with many large holes around its base. At 8:55 pm. (standard time), about ½ hr. after dark, caught a mouse (#827), and reset trap. At 9:20 pm., had another in the same trap (#828). Shortly after I went to bed, I heard another snap (ca. 10:00 pm.) and in morning found a third mouse in the same trap. This one was another young ♀, 167-83-20-18, 20.0 gm. Also got a mouse about 12 ft. away in Acer at the base of a D. Fir. This was a young ♂, 163-79-21-17, 14.6 gm. The second trap at the stump was not bothered.

Banks
1960

Odocoileus

June 10 Bogard Campground, 5600±ft., Lassen Co., Calif. ~ On a drive around this end (W) of the flat, at the extreme W end of there is a large green meadow. Here I saw a herd of 15 deer, + there may have been more behind the trees. Later, on the logging road at the S side of the flat, saw a buck with antlers in velvet - at least 3 points on each side. He was with a doe.

Banks, R.C.

1960

Baja California, Mexico

Catalogue

nos. 848-904

Banks
1960

Catalog

October 22

Isla Espiritu Santo, S end, Baja California de Sur, Mexico

848. Cnemidophorus maxima
849. " "
850. "
851. ♂ Dendrocopus scalaris ♂ 36.0 gm. molt skull part. oss.
852. ♂ ~~Tyrannus~~ Myiarchus cinerascens ~~verticalis~~ 31.9 gm. mod. fat. no molt ad. sh.
853. ♂ Polioptila caerulea 5.4 gm. imm sk. molting.

October 25

E side Isla Cerralvo, Baja Calif. Mexico

854. ♂? Amphispiza bilineata skull inc. oss. 12.6 gm. no molt.
~~855. ♂ Otus ... 13.7 gm. Tes. 1mm.~~
856. ♀ Richmondena cardinalis ad. 35.8 gm. molt
857. ♂ " " ad. 36.4 "
858. ♂ Myiarchus cinerascens ad 28.9 gm.
859. ♂ " " ad 30.6 gm. molting
860. ♂ Richmondena cardinalis 39.4 gm. "
861. ♀ Peromyscus eremicus no emb. 198-101-19-18 21.1 gm.
862. ♂ " " Tes 5mm. 186-93-20-19 19.3 gm.
863. ♂ " " ~~skel - pick up~~ tes 5mm. 193-101-19-19 - 20.7 gm.
864. ♂ Pipistrellus hesperus 3.1 gm. 63-27-6-9 Tes. 6mm. Trag. 4mm
865. 0? Bubo virginianus inc. skel. pick-up
866. ♂ Peromyscus eremicus 202-112-21-19 Tes. 7mm. 21.6 gm.

Oct. 26

867. ♂ Peromyscus eremicus 190-98-20-19 20.9 gm.
868 ♂ Salpinctes obsoletus 15.1 gm ad. tes. small.
869 ♂ Amphispiza bilineata Juv.
870 0? Mimus polyglottos 51.1 gm. gonads shot ad.

Banks 1960

Catalog

E side Isla Cerralvo, Baja Calif. Mexico

Oct. 26

871. ♀ Dendrocopus scalaris skull ~~fully~~ ossified. dorsal molt. 29.0 gm.
872 ♂ Centurus uropygialis 64.7 gm. tes. 1 mm. sk. oss.
873. ♂ Zenaida asiatica tes. 2 mm. 172 gm.
874. Cnemidophorus cerralbensis
875. Sator grandaevus
876. " "
877. " "
878. ♀ Zenaida asiatica 158 gm. ova small. sex sp. act.

Oct. 27

879 ♂ Perognathus arenarius 168-94-21-9 15.3 gm.
880 ♂ Peromyscus eremicus 188-96-19-18 19.7 gm.
881. ♀ " " 185-96-20-17 15.3 gm. no emb.
882. ♂ " " 195-104-19-18 22.2 gm. tes. 6 mm.
883 ♂ Lanius ludovicianus Ad. tes. 1 mm. molting.
884. ♂ Mimus polyglottos Ad tes. 1 mm. 51.7 gm.
885. ♂ Calypte costae imm. 3.8 gm very fat
886. ♂ Amphispiza bilineata imm sk. 12.2 gm.
887. ♂ Columbigallina passerina 40.9 gm. crop full sk unoss.

Oct. 28

888 ♀ Peromyscus eremicus 201-96-19-20 20.9 gm.
889. ♀ Polioptila caerulea 5.4 gm. Ad.
890. ♂? Porzana carolina skel. pick-up
891. ♂ Chlorura chlorura 30.3 gm. no fat Ad. very little molt dorsally.
892. ♂ Peromyscus eremicus 202-108-19-20 22.4 gm. tes. 6 mm.
893 ♂ " " 197-102-20-18 20.0 gm. tes. 6 mm.
894. ♂ " " 208-115-20-18 19.6 gm. tes. 5 mm

Banks
1960

Catalog

E side Isla Cerralvo, Baja Calif., Mexico -
Oct. 29

895 ♂? Aimophila flaviceps 6.6 gm. gonads shot. Ad. sk.
896 ♂ Calypte costae 2.7 gm. no fat [skull imm.]
897. ♂ Xantu Hummingbird 3.4 gm. " " tes. 2 mm
898. ♂ Melospiza lincolnii 16.4 gm. imm.
899. ♂ Falco sparverius 84.2 gm. stom. contents insects.
900. ♂ Myiarchus cinerascens 29.1 gm. ad. see sp. acct.
901. Ctenosaura hemilopha
902. Carnivore scat

Oct. 30

903. ♂ Perognathus 171-93-22-8 11.9 gm. no emb.
904. ♀ Peromyscus 205-112-20-20-23.3 gm.

Banks, R.C.

1960

Baja California, Mexico

Journal

Banks
1960

Journal

Oct. 19-20 San Francisco, Calif. to La Paz, Baja Calif., Mexico -

Robert G. Crippen and I left the bay area, via PSA, at 8:15 p.m., arriving at San Diego just under 2 hours later. Bob called George Lindsay, Director of the San Diego Museum, who boarded us overnight and drove us to the Tiajuana airport on the morning of the 20th. It was a beautiful warm sunny day, but later a haze over the Gulf blocked some scenery. We left Tiajuana at 10:30 a.m., stopped at Ensenada, Santa Rosalia, + Loreto, arrived La Paz on time ~~at~~ about 5:10 pm. Are staying tonight at the "apartment" storehouse maintained by the Calif. Acad. Sci., at Besilario Dominguez 225, La Paz. My impressions of the peninsula are as follows: Northern Baja was very hilly and dissected, with sparsely vegetated steep-sided arroyos and sharp-topped ridges. There was a noticeable difference in vegetation, with chaparral on the N-facing slopes and scrub (much sparser) on the S-facing slopes + ridges. We passed too far from the Sierra San Pedro Martir to see much, but could make out good forest patches. Immediately south of this range, things changed radically. The land appeared to be a flat plateau, much less dissected and with broad expanses between shallow arroyos. There was very sparse vegetation. Another change occurred after leaving Sta. Rosalia, first noticed inland from Punta Chivato. Large cacti and patches of brush appeared, and more vegetation appeared as we neared Loreto, which was fairly green. From here S, I didn't see land (wrong side of plane), but my impression of La Paz is slightly drier than Loreto.

Baha
1960

Journal

Oct. 20 San Francisco, Calif. to La Paz, Baha Calif, Mexico. The only birds of note were Turkey Vulture + Raven. Our stops were very brief, and a strong N wind was blowing all day. Dark soon after settling in La Paz.

Oct. 21 La Paz, Baja California, Mexico – 7:00am. got up. Will spend today getting supplies. Early saw Turkey Vulture, Man-o'-War Bird, Brown Pelican, Cormorant sp., and heard Zonotrichia leucophrys and Mockingbird. Later in the saw Tyrannus sp. Spent the day getting lined up for the trip to Cerralvo. Went to the home of Richard Adcock, who operates LST's for skin-diving. He will take us out. While with him, got word of an impending storm, potentially a "chubasco" or hurricane forming S of the peninsula. Spent the afternoon getting groceries at Ruffo's "Perla de La Paz". Late evening, Adcock came by. The storm, which is a gale (50 mi. per hr. wind) is veering NW, + will probably go ~~up~~ the Pacific side of the peninsula. But we won't know for sure until tomorrow. He is unwilling to take us to Cerralvo, so asked us to go with a diving trip to the N end of the peninsula forming La Paz Bay and to the S end of Espiritu Santo. It was rather cloudy all day, clearing at night.

Oct. 22 The sky was completely overcast when we got up just before 7, + except for brief sunny spells it was cloudy all day. We left the dock about 8:30 on an LST with Adcock + 2 skin divers. A second boat with Mrs. Adcock + 2 Amer. couples left shortly after. We stopped first

22 Oct. La Paz Bay — at La Gaviota Island, in La Paz Bay. This is a Man-o'War Bird nesting site but of course nothing there now. The rocks, esp. on the W side, are covered with guano. There are good sized cacti and some other vegetation on the ridge + east side. There was no sign of nests, but occasional skeletal elements, of both birds + fish. Land birds were scarce — Anna Hummingbird and House Finch were all I saw. Around the island, and on the way out, saw: Blue Footed Booby, Turkey Vulture, Brown Pelican, and Man o'War Bird, Western Gull, Great Blue Heron, Snowy? Egret, Double-crested Cormorant, and 2 kinds of Tern.

After an hour or so here, went to the S end of Espiritu Santo Island, Baja Calif. Mexico. Bob + I landed here at 11:30, to be picked up by the other boat sometime later. The beach at the S end of this island opens onto a broad plain which rises gradually to a low ridge. At this ridge one sees another, narrower, valley at rt. angles, going to the shore + a mangrove swamp ~~at~~ one way, back into the mountains the other. The first plain is covered with ~~open~~ sparse, open vegetation, ~~no~~ seldom over waist high except for the tall cacti. The ground is rocky, red rocks on land, black rocks on the beach. Walking thru the plain, we flushed several of the Black Jack-Rabbits. Lizards were abundant. There were few birds — exactly

Journal

Oct. 22 Espiritu Santo Island, Send, Baja Calif. Mexico

the wrong time of day. We walked up the plain to the ridge, turned left down the draw toward the ~~g~~ beach. Reached the water of this little bay, which was lined on both sides with mangroves. The S side of this valley was extremely rocky and rough walking. I worked down nearly to the beach, then ~~turned~~ turned S, up the hill. On the top saw more birds than any previous stop. The side of this valley has several "caves", overhanging ledges, which I searched for ~~bats~~. Walked back over the ridge to the beach. Bob had seen the boat which was supposed to meet us — it was broken down. We got a fisherman to row us to it. Here we were anchored by a cliff, which showed well the nature of the island. It was alternate layers of sandstone & conglomerate, the latter with quite large ~~ro~~ inclusions. The caves mentioned earlier were caused by the softer parts of the sandstone eroding out. Arrived back in La Paz about 7:30 pm. After dark the clouds left, and we could see the stars. We found out that the hurricane is in the Gulf, heading due N. This pretty well cancels any trip to Cerralvo, at least for 2 days. Birds seen on Espiritu Santo: Osprey, Red-Tailed Hawk, Mockingbird, Rock Wren, Blue-gray Gnatcatcher, Black-throated Sparrow, Verdin, Ground Dove, Green Heron (in mangroves), Ladder-backed Woodpecker, Western Kingbird, Belted Kingfisher (heard near

Banks
1960

Journal

Oct. 22 S. end Espiritu Santo Island, Baja Calif., Mexico
mangroves), White-crowned Sparrow (Z. l. oriantha)
Loggerhead shrike. Also saw the Ground
Squirrel and numerous Wood Rat houses.
Collected Kingbird, Gnatcatcher, + Woodpecker, +3 lizards.
The gnatcatchers and verdins were the most common
species, Wrens + mockingbirds + black-throated sparrows next.

Oct. 23 La Paz, Baja Calif., Mexico - Dick Adcock met us
while we were eating breakfast; the storm has
gone inland and broken up, but since he had prior
commitments we will go to Cerralvo tomorrow.
Spent a good part of the day putting up the stuff we
got yesterday. Bob's rabbit took the most time.
In the afternoon met Richard Ethridge, PhD from
Mich., on second post-doctoral year at USC with
Savage. He has done herp collecting on Cerralvo
and is going this trip to the Sierra   on the
Cape. He is working on Iguanid systematics ~~via~~
skeletal approach - similar to some of Bob's thoughts.
He got Scaphiopus couchi + Perognathus on Cerralvo.
Today was less cloudy than the past few days.

Oct. 24 Dawned bright + clear. We were supposed to leave
for Cerralvo at 8 ±, but didn't finally get away
till after 11 a.m. The entire day was spent in
the trip. We didn't land on the island until almost
dark. Approached the island from the N + W, then
went down the east side about 2/3 of the length of the
island, returned + went ashore about 1/3 down from the N

Banks
1960

Journal

Oct. 24 E side Isla Cerralvo, Baja Calif., Mexico

end. My impression of the island on approach was that it is exceedingly barren and steep. The E side, however, is much more shaded, and much more vegetated. It is very steep in places, but a few canyons offer fairly broad approaches to the higher country. It is such an arroyo that we camped in. Set our gear on shore at dusk, carried it up into the gorge + made camp after dark. I set out 15 museum specials + 2 rat traps near camp.

Oct. 25. Arose before dawn, checked traps. Had 8 Peromyscus. Buried them in the "refrigerator" to do later. Hunted up the gorge, over a ridge, and into a branch of the main arroyo. This rather shaded branch was fairly teeming with birds, but the ridge was sunny, hot, and ~~not~~ without birds. I very quickly collected 2 Black-chinned Sparrows, 2 Cardinals, and 2 Ash-throated Flycatchers. The brush in this arroyo was fairly thick, some to 10 ft. high. Spent the most of the day putting up skins. Lost 1 sparrow - Bob brought a cardinal. Did mice in late p.m., and at dusk shot + did a bat, and did a mouse that got into a trap still set from last night. Saw lizards incl. Sator + Ctenosaura, for which see Bob Crippen's notes. Birds seen:

Turkey Vulture	Brown Pelican
Raven	Cactus Woodpecker
Sparrow Hawk	Black-throated Sparrow
Man-o'-War Bird	Blue-gray Gnatcatcher

Oct. 25 E Side Isla Cerralvo, Baja Calif., Mexico

Verdin	Rock Wren
Mockingbird	Ash throated Flycatcher
White-winged Dove (?)	Ground Dove
Empidonax sp.	Hummingbird sp.

Buteo Picked up a skeleton of a Buteo(?) and found another skel. (rail?) which I'll get tomorrow.

Oct. 26. Had 1 more Peromyscus when I checked traps at dawn. Worked up the arroyo again, got a long ways farther up than yesterday. In patches along the arroyo the vegetation is rather thick, forming woodland-type formation, principally Bursera (spelling?) and Pachycormus. There are several plants in flower, used by bees & hummingbirds. Several places along the arroyo the ground looks damp, but we haven't found any open water. In late afternoon set all my traps in a large arroyo to the S off the main one. Birds seen:

Raven	Brown Pelican
Osprey	Black Throated Sparrow
Turkey Vulture	White-crowned Sparrow
Sparrow Hawk	Blue Gray Gnatcatcher
Red-Tailed Hawk	Gila Woodpecker
Ash Throated Flycatcher	Cactus Woodpecker
Mockingbird	Rock Wren
Loggerhead Shrike	
Ground Dove	
White-Winged Dove	

Banks
1960

Journal

Oct. 27 E side Isla Cerralvo, Baja Calif., Mexico – Up early to check the traps. Had 6 Peromyscus, 1 Perognathus. Lost 1 trap, the string broken + the trap gone. Spent most of the day in camp skinning. Re-set the traps in late afternoon, moved 5 rat traps to a ridge just N of camp. Bob brought in a Costa Hummingbird. also, Bob found water, several puddles, in the N fork of the arroyo, beyond where I had been yesterday, and collected Bufo punctatus ad. + tadpoles.

Birds seen today:

Blue Gray Gnatcatcher	Turkey Vulture
Sparrow Hawk	Raven
Mockingbird	Rock Wren
Ground Dove	Loggerhead Shrike
Brown Pelican	White-Winged Dove
Gila Woodpecker	Black throated Sparrow
	Western Gull

After dark walked along the beach for a ways, then hunted up the canyon for an hour. It was much too bright moonlight (½ moon) and too windy. Thought I heard a horned owl way off, but not sure. Today was very calm, the breeze down the arroyo not starting till dark. Yesterday this happened, too, but also all day the wind blew up the canyon.

Oct. 28 Accidentally slept late, till 6:15, this morning. Checked the traps, both lines, immediately. In the 5 rat traps I had 4 Peromyscus, 2 chewed badly. In the other line had 2 " . Put up 1, + stuff left from yesterday,

Banks
1960

Journal

Oct. 28 E side Isla Cerralvo, Baja Calif., Mexico

+ stuff (1 bird) shot this a.m. In afternoon, I hiked up to the ridge. I went by turning up the first branch arroyo to the N, off our main arroyo, then staying on the N bank of it, following along the coast for a ways until the ridge turned inland, and following it to the top. Followed goat trails a good part of the way. About half-way up, saw + shot a Green-tailed towhee. The ridge behind our camp arroyo turns out to be the backbone of the island. From it I could see both sides of the island, and looking W could see the peninsula forming the bay of La Paz, the Bay, and the mainland of the peninsula of Baja Calif., all N of La Paz. Came back down a very steep, rough, rocky branch of our main arroyo. The round trip took about 3½ hrs. In a couple places on the way up, the Bursera and Cardón form patches of "woodland - tall plants openly spaced, with grass-like vegetation on the ground. On the ridges there are mainly cactus, and smaller Bursera. A fairly common, but not abundant, plant high as well as low, as in camp, is a nightshade Solanum. High on the slopes Fig, Ficus, is abundant in small plants. The very top of the ridge is fairly flat and level for 50 yds. or so, with very little growth except for a grass like plant + cactus. Apparently the goats spend most of their time here - it is heavily grazed. There is not much

Banks
1960

Journal

Oct. 28 E side Isla Cerralvo, Baja Calif., Mexico

of a high point to the N, but not very far S a peak extends up pretty high. Directly opposite our arroyo there is a similar one. It too appears to be well vegetated, with many side arroyos. In all regards it does not seem to be much different from ours, except it is perhaps more extensive, and the ridge may be more accessible. Bob reached the ridge independently a few hours before I did, by another route. We both estimated the elevation on the ridge, directly behind our arroyo, to be 1500 ft., but that is only a guess. On my return to camp, took a dip in the ocean, & after supper put up the Towhee. Set a mouse trap near our food supply, & put up one mouse caught there. Until the time of this writing, have caught 7 mice in that trap (Peromyscus, q.v.) Set 3 other traps near camp, but that is all I have out tonight. Today was warm, not very windy. Birds:

Raven
Turkey Vulture
Brown Pelican
~~Snowy~~ Egret (one flew past; seen from high point along shore)
Mockingbird
Verdin
Ground Dove
Loggerhead Shrike
~~Snowy Egret~~

Sparrow Hawk
Red Tailed Hawk
Black Throated Sparrow
Ash-Throated Flycatcher
Blue-gray Gnatcatcher
White Winged Dove
Osprey

Banks
1960

Oct. 29 E side Isla Cerralvo, Baja Calif., Mexico - Hunted up the main arroyo this morning, taking the right branch near the top where Bob found water + a toad. This part of the canyon is very steep and rocky. For about 50 yds. there is a small running stream, with several puddles of a couple square feet each, and a couple inches deep. [See Gripper's notes also for description]. There is algae in many of the puddles. I saw several tadpoles and 1 newly metamorphosed toad. In this area Ground Doves were abundant, and here I took 2 hummingbirds + a Lincoln Sparrow. Found a Ctenosaur carrying a large, still living, dragon-fly. In the evening set traps on the hill immediately N of camp, that is, along the cliff facing the gulf. At about 6:30 started trapping in camp, at our food shelf, for Peromyscus. Last nite we got ten here; so far tonight (9:30 now) we have 6 more. Today was very windy all day, rather cloudy early. Tonight is clear as can be, as all nights here have been.

Oct. 30 Got up at 4:30, spent about $1\frac{1}{2}$ hr. before daylight looking for owls, No luck. Shot a feral house cat. While checking traps, saw a Great Blue Heron fly past the mouth of the arroyo. Had 1 Perognathus, 5 Peromyscus. Vich Adrock came for us at 7:30, earlier than we had figured. We left the island about 9am; arrived in La Paz well before 3pm. Spent the rest of the day getting our gear squared away for the return

Journal

La Paz, Baja Calif., Mexico to Berkeley, Calif., USA.

Oct. 31 trip. On the 31st, left La Paz airport at 7:30 a.m., arrived in Tiajuana about 2 pm, got to San Diego about 3, left there at 6:15 and arrived San Francisco about 8:10, Berkeley about 9 p.m.

Banks, R.C.

1960

Ba a California, Mexico

Species Accounts

Birds

Mammals

Birds

Banks
1960

Brown Pelican
Pelecanus occidentalis

Oct. 22 Isla La Gaviota, La Paz Bay, Baja Calif., Mexico — a flock of 38 resting on shore + on water.

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico — Seen throughout the day, over both land and water.

Oct. 26 ditto

Oct. 27 "

Oct. 28 "

Oct. 29 "

Banks
1960

Fregata magnificens

Oct. 21 La Paz, Baja California, Mexico - Saw a ♂ and a ♀ soaring over the bay between 7 and 7:30 a.m. Later in the day, more seen - immatures also.

Oct. 25 E side Isla Cerralvo, Baja Calif, Mexico - Seen all day soaring over the island or the water. One (♀) made several dives at some sharks playing near the surface a couple hundred yards offshore.

Banks
1960

Cathartes aura

Oct. 20 Santa Rosalia, Baja California, Mexico. - In 20 minutes here, saw several vultures flying (soaring) N + S, right along the shore line, apparently using currents set up by the junction of land + water. they were not very high.
La Paz, Baja California, Mexico - About 6 p.m., several seen over the waterfront, by Col. Acad.'s apartment.
Oct. 21 Saw at 7 AM 10 rising over the hills to the N of the city. 7 a.m. Two were sitting on a lamp post by water's edge, and a third flew in and landed about 50 ft. from the base of the pole, began feeding on what was left of a dead dog at the edge of the water.
Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico - several seen, off + on all day, soaring around.
Oct. 26 ditto
Oct. 27 " , One seen sitting on a Cardon
Oct. 28 Shortly afternoon, 10 were circling over the arroyo + just to the north. Late in the afternoon 17 were circling north of our cañon.
Oct. 29 A bird flying directly over camp was seen to stretch his right leg forward and scratch his ~~th~~ throat or head.

Banks
1960

Buteo ~~borealis~~ jamaicensis

Oct. 26 E side Isla Cerralvo, Baja Calif. Mexico - In the morning saw one circling high over the upper reaches of our camp arroyo. Later in the day the species was seen several times nearer the coast, once being chased by a sparrow hawk.

Oct. 28 At least 2 individuals seen today, one normal appearing one and one very dark phase bird.

Oct. 29 Heard one calling near the head of the arroyo in the morning. Shortly after noon, saw Ravens attacking the dark phase bird. There were 2 ravens, but only one was involved in the actual harrying, which lasted for several minutes. The raven usually stayed above the hawk, made repeated attacks, & sometimes the birds brushed wing tips, altho that seemed to be as close as they got. The hawk soared on, occasionally beating its wings as if either to get away or to strike back. The raven was heard croaking every time it dived at the hawk. The other raven didn't attack, but followed along a good distance away. Nearby vultures didn't seem at all concerned, & were ~~not~~ attacked.

Banks
1960

Osprey

Oct. 26 E side Isla Cerralvo, Baja Calif., Mexico — Twice observed today, flying along the shore.

Oct. 28 One flew past the mouth of our arroyo this morning.

Oct. 29 Seen early this morning, once.

Banks
1960

Falco sparverius

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico — One flew over the arroyo above camp early in the morning, giving the characteristic call. It looked large. Heard one (or more) several times during the day.

Oct. 26 A pair were very noisy over a large area just N of the arroyo nearly all day. They were seen to chase larger birds of prey; One flew after a red-tailed hawk. Late in p.m., saw one sitting on a "cardon" on the S side of the arroyo. It had a spotted breast.

Oct. 27 Seen often today, but not as conspicuous as yesterday.

Oct. 28 Seen several times. There may be another falcon here also.

Oct. 29 A male collected this morning had a stomach full of insect parts.

Banks
1960

Porzana carolina

Oct. 28 E side Isla Cerralvo, Baja Calif., Mexico, – Found this carcass 2 days ago, picked it up today as RCB 890. It was in our camp arroyo, about 100 yds from the water. The skull was clean, but the flight feathers were still attatched to the wings; the body was fairly intact with most of the dorsal feathers present. One leg was attatched to the body, the other was loose & by itself.

Banks
1960

Larus occidentalis
Western Gull

Oct. 27 E side Isla Cerralvo, Baja Calif., Mexico - One seen today flying along shore. Saw several on the way to the island, and I guess I saw them the last couple days here, also, but am not sure.

Banks
1960

White-winged Dove

Zenaida asiatica

Oct. 26 E side Isla Cerralvo, Baja Calif., Mexico - Seen several times in the morning, up to 3 at a time. Two collected, both at long range. 873 had small (2mm) testes, the left one black, the right one white. The second bird was a ♀. The crop contained about 60 seeds, weighing nearly 6.5 gm., some of which were saved for identification.

Oct. 27 Saw 3 together early in morning. Several seen later.

Oct. 29. Seen, commonly.

Banks
1960

Ground Dove
Columbigallina passerina

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico - I saw one flying, and Bob Crippen reported seeing one.

Oct. 26 Saw several today, always 2 at a time, at least not far apart in distance or time.

Oct. 27 Seen several times today, in pairs. In late afternoon flushed ~~one~~ pair from a tree with hanging pods of seeds; collected one of them. Well after dark flushed some from a large tree.

Oct. 28 Several seen today, both on the ground and in trees.

Oct. 29 at least 6 together near the spring.

Banks
1960

Xantus Hummingbird

Oct. 29 E side Isla Cerralvo, Baja Calif, Mexico. I have seen this species previously in the week, but until I collected one today was doubtful of recording it. The species was fairly abundant in the upper reaches of the arroyo. Here I observed 2 chasing each other back and forth, beyond where the spring is. They were feeding at a blue flower.

Banks
1966

Calypte costae

Oct. 27 E side Isla Cerralvo, Baja Calif., Mexico. - For the last 2 days have seen hummers, but could not name them. Today Bob shot a Costa H., which does not have all the blue on crown + throat. It had great layers of subcutaneous fat, ~~fat~~ the skull was ossified only occipitally.

Oct. 29. Took one bird today, in plumage similar to the one mentioned before. This one, however, weighed over a gram less and had no fat.

Banks
1960

Centurus uropygialis

Oct. 26 E side Isla Cerralvo, Baja Calif., Mex. — Shot one from a cardon in the morning, the first one seen. In the afternoon saw 2 together on a cardon.

Oct. 27 Several seen or heard, mostly on Cardons.

Oct. 28 Seen.

Oct. 29 Several observed.

Banks
1960

Dendrocopus scalaris

Oct. 22 Isla Espíritu Santo, S end, Baja California de Sur, Mexico - Heard 2 of these birds in the plain near the beach on the S end of the island, but didn't see them. Later, on the ridge S of the Mangroves (see journal) saw one at a hole in a cactus. There were 2, perhaps 3, in this area. Collected 1, a ♂ with skull ossified only in occipital region. It was nearly finished with molt, but sheaths bordered the wide ventral apterium and were abundant on rear crown + neck.

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico - One seen near camp early, several others heard + or seen during my morning hunt.

Oct. 26 One collected in morning. It was molting on the body + crown. The skull was fully 2-layer, the ovary small.

Oct. 28 Seen + heard as I was on my way to the ridge.

Oct. 29 Heard today.

Banks
1960

Myiarchus cinerascens

Oct. 22 Isla Espiritu Santo, E. side, Baja Calif. Sur, Mexico —
One seen and collected.

Oct. 25 E. side, Isla Cerralvo, Baja Calif., Mexico — a very common and noisy bird. Two collected were in body molt.

Oct. 26 Several seen and heard, but not noticed as much as yesterday.

Oct. 28 Several seen today.

Oct. 29. Observed one of these birds repeating an action seen a couple days ago (Oct. 28) — fruit eating. The bird was in a couple kinds of trees, one a Bursera. It would fly up under a group of fruits (fleshy coat over a large hard seed) and hover, picking at the fruits, then land again. A bird today did this repeatedly. I could not tell if it was after the fruit or insects, but it looked like the former. This bird was shot (RCB 900) and fruits were found in its stomach. The stomach contained very little identifiable as insect material; 2 large seeds were saved for identification later. Shortly after this bird was shot, two others were seen in the immediate vicinity. One of these was repeatedly attacking the other, and eventually drove it away.

Banks
1960

Raven
Corvus corax

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico - seen throughout day, 1 or 2 at a time. As I entered camp about 9:15 am; 2 were sitting on a ledge above camp.

Oct. 26 Seen throughout the day.

Oct. 27 ditto

Oct. 28 ditto

Oct. 29 Two seen attacking Red-tailed Hawk. See that account.

Banks
1960

Verdin
Auriparus flaviceps

Oct.22 Isla Espiritu Santo, S end, Baja Calif Sur, Mexico - A common species, quite a few seen. ~~One collected.~~

Oct.25 E side Isla Cerralvo, Baja Calif., Mexico - A fairly abundant bird, seen singly, but often near Blue-gray Gnatcatchers.

Oct.28 One seen as I was going to the ridge.

Oct.29. Collected an adult, unsexable.

Banks
1960

Rock-Wren
Salpinctes obsoletus

Oct. 25 Inside Isla Cerralvo, Baja California, Mexico - Several heard, but only one seen in the morning.
Oct. 26 Collected an ad ♂ with small testes. It was on a rock in the arroyo, rather far up.
Oct. 27 Several heard.
Oct. 28 At least 2 seen fairly close together in the first, very rocky, arroyo to the N of the main one. Several others heard.
Oct. 29 Seen & heard.

Banks
1960

Mockingbird
Mimus polyglottos

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico — Several of this species heard singing on the slopes of the main draw in which we are camped, but farther up. One seen.

Oct. 26 Seen commonly today, and heard singing. Once I saw what looked like a territorial squabble. One adult shot, could not be sexed.

Oct. 27 Early in morning collected a bird which turned out to be a ♂. This is one of the most common birds here.

Oct. 28 Several seen + heard singing today.

Oct. 29 "

Banks
1960

Polioptila caerulea

Oct. 22 Isla Espíritu Santo, S end, Baja California de Sur, Mexico — this species was one of the more common on the island. The one I collected was an immature, molting rather badly. The 4 central rectrices were nearly full grown, but fell out while I was working.

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico — Several seen this morning. Fairly common.

Oct. 26 Several heard.

Oct. 27 ditto

Oct. 28 One collected in the morning was an adult ♀. Seen several times during the day.

Oct. 29 Several seen + heard in morning.

Banks 1960

Lanius ludovicianus.

Oct. 26 E side Isla Cerralvo, Baja Calif., Mexico - Seen twice today, morning and afternoon, possibly the same individual.

Oct. 27 In morning shot one near where I had seen the species yesterday. It was a male, molting heavily dorsally, with small testes.

Oct 28 In the rocky arroyo to the N from ~~ours~~, one landed in a tree under which were several small birds feeding.

Banks
1960

Richmondena cardinalis

Oct. 25 E side Isla Cerralvo, Baja California, Mexico. — First spotted a ♀ of this species a fair distance away in a fairly dense bush about 8 ft. tall. Shot her with a no. 9. While I was standing near that bush some 5 minutes later, a ♂ came in and landed with a loud chirp close to me. Bob Crippen also shot a ♂, and a ♀ was associated with it. This bird (the ♂, my no 860) had an unossified window anteriorly in the skull, & I judge it to be immature. Both mine were adult. All three birds were molting, my ♂ replacing primaries.

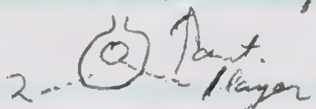
Banks
1960

Chlorura chlorura

Oct. 28 E side Isla Cerralvo, Baja Calif., Mexico – Took the only bird seen, rather high (700±ft.) on the slope. It was associated with a flock of Black-throated Sparrows.

Banks
1960

Amphispiza bilineata

Oct. 25 E side Isla Cerralvo, Baja Calif., Mexico – Very abundant, ranking with the Gnatcatcher + A.T. Flycatcher, probably more than latter. Seem to be always in pairs (at least in 2's). Two birds collected but one in such bad shape I discarded it. Skull oss. pattern – 

Oct. 26 Heard several of these birds. Collected one in juvenal plumage. It's skull was ossified (2-layer) occipitally only.

Oct. 27. In late afternoon found a group of at least 4 of these birds. Shot one

Oct. 28 Seen in groups of 2 to 6 or more. this is probably the most ~~ab~~ common bird here, but is not particularly conspicuous.

Oct. 29. Seen commonly again.

Banks
1960

Zonotrichia leucophrys

Oct. 22 Isla Espiritu Santo, S end, Baja Calif., Mexico.
One seen, an adult of the oriantha type.

Oct. 26 E side Isla Cerralvo, Baja Calif., Mexico - one seen, an immature-plumaged bird.

Banks
1960

Melospiza lincolnii

Oct. 29 E side Isla Cerralvo, Baja Calif., Mexico - Saw and shot a single bird in some brush near the water at the head of the canyon.

Mammals

Banks
1960

Pipistrellus

Oct. 24 E side Isla Cerralvo, Baja Calif., Mexico - Bats were flying when we reached the island, and were quite numerous over the arroyo in which we camped.

Oct. 25 Flying at dusk in the morning, and again at evening. The arroyo has several "caves." and many ledges which would make good roosting places, altho we could not see any bats settle down. One shot this evening was a tiny Pipistrell - all those flying seem to be about the same size.

Oct. 26 Flying dawn and dusk.

Oct. 27 Same

Oct. 28 Same, but fewer than before.

Oct. 29. Very few this evening. As the moon is getting brighter, they seem to be decreasing in activity.

Perognathus arenarius

Oct. 24 E side Isla Cerralvo, Baja Calif., Mex. — As we were carrying our gear up from the water line to camp, saw a mouse thought to be a Perognathus.

Oct. 26 One seen walking + hopping under a dead fallen "tree" or brush pile about 8:30 pm., in an area where I had caught only Peromyscus for 2 nights, near camp.

Oct. 27 In a trapline through a brushy hillside with open spaces, caught one pocket mouse, a male.

Oct. 29 Set 3 traps near camp last night, where I had seen a mouse, but no success. this evening soon after dark caught one small mouse here.

Banks
1960

Peromyscus eremicus

Oct. 25 E side Isla Cerralvo, Baja Calif. Mexico –
In 15 mus. specials + 2 rat traps set in the dark last night, baited with walnut, caught 8 deer mice. In the evening, just after dark, got one more. Left traps out, reset but not
Oct. 26 rebaited, and had another in the morning. That is a total of 10, of which 6 were put up by Cuppen or I. The area of the traps was the arroyo near camp, about 25 × 50 yds. Traps were set on the perimeter of this area only, on rocky ledges or near rocks with burrows (holes) nearby.

Oct. 27. In a line of 35 traps on a brushy hillside, meeting the stream bed at both ends, caught 6 Peromyscus. Put up 3. One ♂ had a large (25 mm long) larva of a botfly on its side – the mouse weighed 20.3 gm. As I write these notes, a mouse is running around our food supply.

Oct. 28 In this same line had only 2 mice. In 5 rat traps on the ridge facing the sea, had 4. Two of these were badly chewed up, one probably by a raven or vulture. In the evening, set 1 trap near our supplies. So far, in a little over two hours, have caught 8 mice – 4 ♂♂, 2 ♀♀, 1 ♂, 1 ♀. 5 minutes later, got another ♂, and 2 or 3 minutes later again a mouse sprung the trap but escaped. Within 2 minutes, had another ♀. After 10 mice in 1 spot in about 3 hrs., left the trap un-set.

Oct. 29. E side Isla Cerralvo, Baja Calif., Mexico - Caught another 6 mice in the same trap during the evening.

Banks. R. C.

1961

Catalogue

nos. 909-928

Banks 1961

Catalog

March 29, 1961

909 Huber Park, El Cerrito, Contra Costa Co. Calif.

909. ♂ Calypte anna 4.0 gm. skull unossified - albino - med. fat.

April 9, 1961

4 mi. S Quartzsite, on rt. 95, Yuma Co., Arizona

910 ♂ Salvadora hexalepis

April 23, 1961

Old Creek, Cayucos, 50 ft. San Luis Obispo Co., Calif.

911. ♀ Zonotrichia leucophrys 26.4 gm, broodpatch,

912 ♂ " " 26.9 gm. tes. 10 mm. cloacal protuberance

4½ mi. W, 1¼ mi. N Cayucos, 150 ft, San Luis Obispo Co. Calif.

913. ♂ Zonotrichia leucophrys 29.1 gm. tes. 11 mm. slight fat

914 ♂ " " 29.7 gm. tes. 11 mm. Singing.

915 ♂ " " 29.9 gm. one testis,

916 ♀ " " 28.1 gm. broodpatch.

917. ♀ " " 24.5 gm. " "

918 ♂ " " 27.4 gm. tes. 11 mm.

919 ♂ " " 27.6 gm. tes. 11 mm.

920 ♂ " " 25.8 gm. tes. 10 mm.

921 ♂ " " 26.8 gm. tes. 9 mm.

4½ mi. W, 1½ mi. N Cayucos, 200 ft, San Luis Obispo Co., Calif.

922 ♀ " " 20.0 gm. very thin ovary tiny no brood patch

San Francisco, San Francisco Co., Calif.

Apr. 20, 1961

923. ♂ Zonotrichia leucophrys 27.1 gm. tes. 9 mm.

Apr. 19 1961

924 ♂ " " 26.4 gm. tes. 3 mm. very fat

Catalog

July 17, 1961

Steubenville, Jefferson Co. Ohio 1200±ft.

925. Sylvilagus floridanus 325-19-73-47 about 1 lb.

N.B. Because p.2 of catalog was out of place in notebook, a new p.2 was accidentally begun. This no. 925 duplicates the number, the other being a White-crowned Sparrow on preceding page.
R.C.B.

Banks
1961

Catalog

San Francisco, San Francisco Co., Calif.

Apr. 24, 1961

925 ♀ Zonotrichia leucophrys ova to 3 mm. broodpatch 27.0 gm.
926 ♂ " " tes. 10 mm. 25.0 gm.
April 27, 1961
927 ♂ " " tes. 8 mm. emaciated 18.5 gm.

Apr. 28, 1961

928 ♂ " " tes. 7 mm. 27.7 gm.

Banks, R.C.

1961

Journal

Banks
1961

Journal

Left Berkeley, Calif., about 8:30 a.m. on April 5 for annual meeting of Cooper Ornithological Society in Tucson, Ariz. Ned K. Johnson, John Ralph and I were the only Berkeley students going. Drove to a point east of Blythe, Calif., the first day, camped along the road. Arrived Tucson about 3 p.m. on Friday, Apr. 7.

Apr. 7 12 mi S Florence, Pinal Co., Ariz. Stopped here on the way to Tucson, walked for about an hour (12:30-1:30 pm.) in the desert. The plants of the area were mesquite, cholla, barrel cactus, etc. Very flat land with a number of washes not over 3 ft. deep. Birds seen were:

Phainopepla	Ash Throated Flycatcher
Desert Sparrow	Linnet
Flicker sp.	Harris Hawk
Gambel Quail	Red Tailed Hawk
Mourning Dove	Ladder Backed Woodpecker
Cactus Wren	Turkey Vulture

John and Ned added to the list: Gila Woodpecker, Verdin, and a few other species.

I saw Antelope(?) Ground Squirrel and Cottontail, and *Cnemidophorus*. There was sign of badger and deer, to say nothing of *Dipodomys* + other small rodents.

Also along the road from Florence to Tucson, saw Prairie Falcon, perhaps White-necked Raven.

Banks
1961

In Tucson, we saw a variety of birds, altho we didn't have much time to watch especially. Roadrunner, cardinal, Inca Dove, Mourning Dove, English Sparrow, the latter three most common, were among the ones seen. Writing this later I don't recall other species. On the way back to

Apr. 9 Berkeley we picked up a snake, Salvadora hexalepis 4 mi. S Quartzite on rt. 95, Yuma Co, Ariz. For more on this, see species acct. At dusk we stopped at a spot 11 mi N Blythe, Calif., where I shot a Myiarchus cinerascens for Ned. We hunted owls here with no success. Saw here, Nighthawk, Poor-will, heard Great Horned and Barn Owls, perhaps also Screech Owls. Although it had been a hot day, it turned cold soon after dark, ~~and~~ we saw no snakes on the road. Drove all night, with car trouble, which we had to get fixed at Bakersfield. Arrived in Berkeley late afternoon, Apr. 10.

Apr. 22 San Luis Obispo and Santa Barbara Counties, Calif. Drove this day south on 101, turning west over the hills to ~~the~~ coast and to Morro Bay. It was dark or nearly so when I arrived, too late for anything. Slept in camp area of Morro Bay State Park.

Apr. 23 Old Creek, Cayucos, San Luis Obispo Co., Calif. – Most of the land from Morro Bay northward to Cambria is not suitable for White-crowns. The country is heavily pastured, and nearly all brush is gone. The coast

Banks
1961

Journal

Apr. 23 Old Creek, Cayucos, San Luis Obispo Co., Calif.
itself, I should say the shore, is inaccessible. I heard birds occasionally along this road (RT. 1) but no place where I could shoot. Here at the S end of Cayucos, in a "trench" left on E side of roadbed, near cemetery, there is considerable brush and nearby a piece of brushy pasture. Birds seen here: Redwing, Amer. Goldfinch, Calif. Quail, Linnet, Spotted Towhee, White-crowned Sparrow, W. Meadowlark, Mourning Dove, Brewer Blackbird, Brown Towhee, Cliff Swallow, Killdeer, Anna Hummingbird, and Sparrow Hawk. Took 2 white-crowns here.

5 mi. (by rd.) N Cayucos, San Luis Obispo Co., Calif.
White- and Golden-crowned Sparrows along road here; migrants apparently mixed with a pair of breeding White-crowns. Took one bird (922 - locality in catalog taken from map) which was not breeding.

4½ mi W, 1¼ mi N Cayucos, San Luis Obispo Co., 150± ft, Calif.
Spent 2 hours here, collecting White-crowns. This area is a narrow strip of coastal scrub, rather dense, about thigh high. Other than White-crowns, saw: Savana Sparrow, ♀ Goldeneye, Linnett, Allen Hummer, Amer. Scoter, Redwing, Avocet, Amer. Goldfinch, and Western Grebe.

Santa Barbara Co., Calif. Nothing but disappointment at this end of the trip. The military has the coast tied up from Pt. Sal to Pt. Conception, with rocket + ~~[illegible]~~ missle bases, etc. One cannot

Banks
1961

Journal

#

Apr. 23 Santa Barbara Co. Calif.

get anywhere near where the sparrows must be, in the coastal scrub. One can drive to town (?) of Surf, but cannot leave road. Disgusting situation. In this general area, ie., Vandenburgh Air Base + Pt. Arguello Missel Station, saw the following items of interest: Coot, Western Grebe, Cinnamon Teal, Yellowthroat, Redwing, Song Sparrow Yellow-billed Magpie, Mockingbird, White-tailed Kite, (all at a little marshy area near Surf), Roadrunner, White-crown, Horned Lark, Osprey, Lark Sparrow, Turkey Vulture, and one wildcat crossing road. Returned to Berkeley in late afternoon + evening.

Banks, R.C.

1961

Species Account

Bird

Banks 1961

Zonotrichia leucophrys

Old Creek, Cayucos, 50 ft., San Luis Obispo Co., Calif.

Apr. 23 Here, S of town, near cemetery, is a large trench filled with brush, adjacent to a brushy pasture. A couple pairs of White-crowns here. The birds fly long distances when flushed. The song is a buzzy — — — —. Took 2 breeding birds, 1♂, 1♀.

5 road mi. N Cayucos on Rt. 1, ca. 200 ft., SLO Co., Calif. — Along the brushy roadside, just N of Villa Creek Rd., White-crowns were heard. Flushed a bird which I thought was a breeder, but it flew across road. It joined a flock of White-crowns + golden-crowns and I took one of the flock. The one I got was not a breeding bird, but an emaciated pugetensis ♀. This place in catalog is: 4½ mi. W, 1½ mi. N Cayucos, 200 ft.

4½ mi W, 1¼ mi. N Cayucos, 150 ft., San Luis Obispo Co., Calif.

In coastal scrub along shore or bluffs here, there is a good population of White-crowns, although the area is limited. Took several birds. #4 and 5 were both mated, and #6 thought to be #5's mate (see catalog — this is not so all ♂♂) 5 was singing — — — —

Bird 8 was mate of 9, the latter carrying a moth in its bill. #10 also had food in its bill. #12 was a singing bird. Flushed a ♀ from a set of 3 eggs in this area, but could find no other nests.

Apr. 19-28 San Francisco, San Francisco Co., Calif. — Several birds trapped at SF State Coll. campus by Mrs. Betsy Cutler, given to me to put up.